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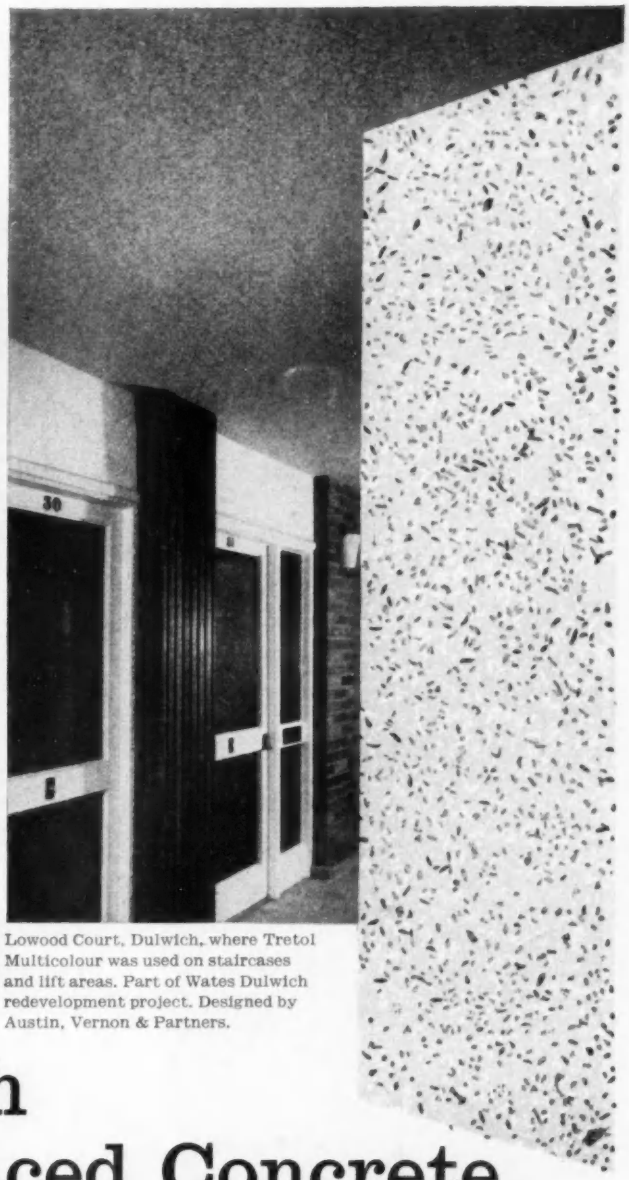

Lowood Court, Dulwich, where Tretol Multicolour was used on staircases and lift areas. Part of Wates Dulwich redevelopment project. Designed by Austin, Vernon & Partners.

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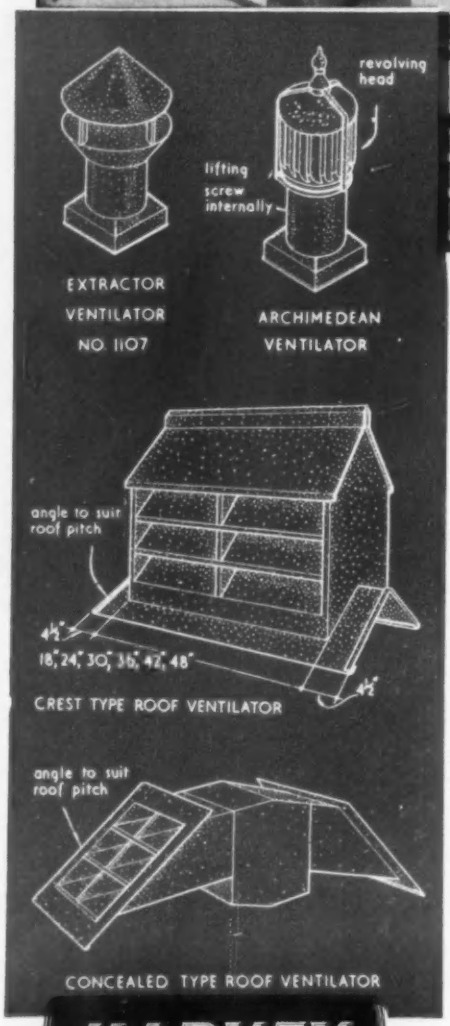


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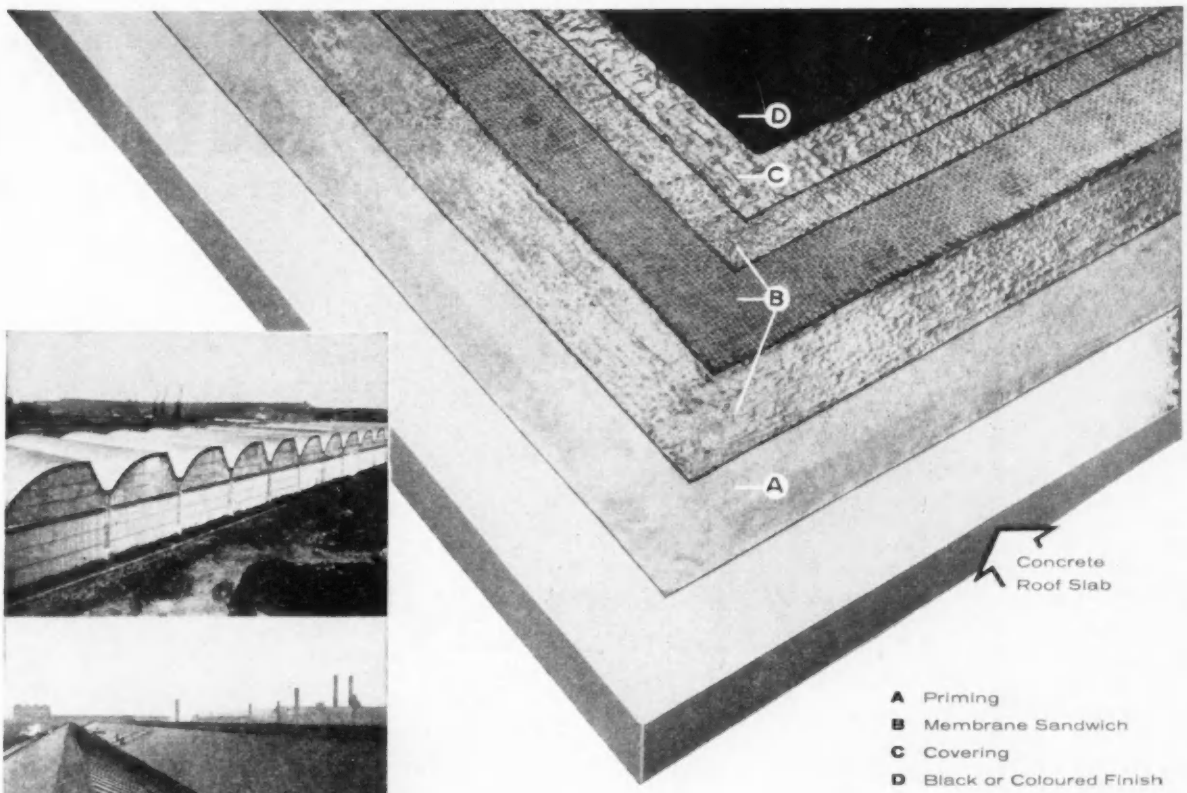


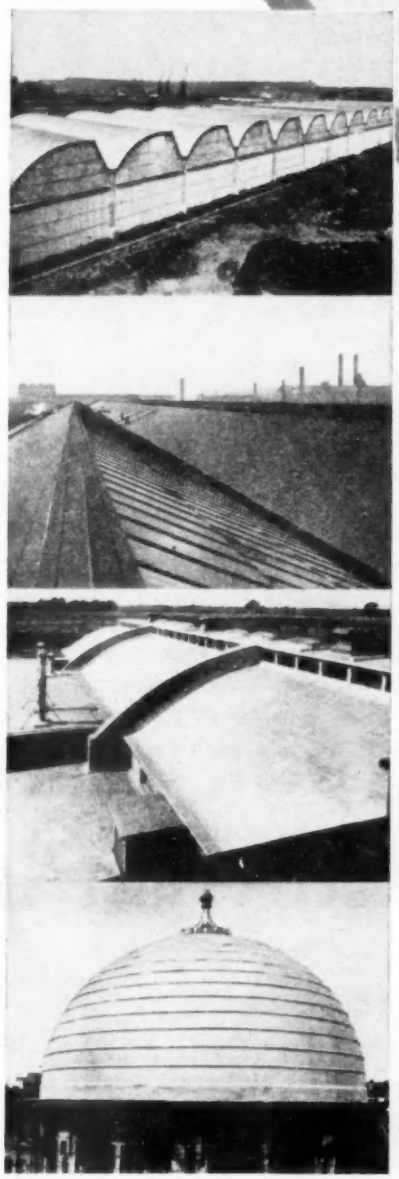

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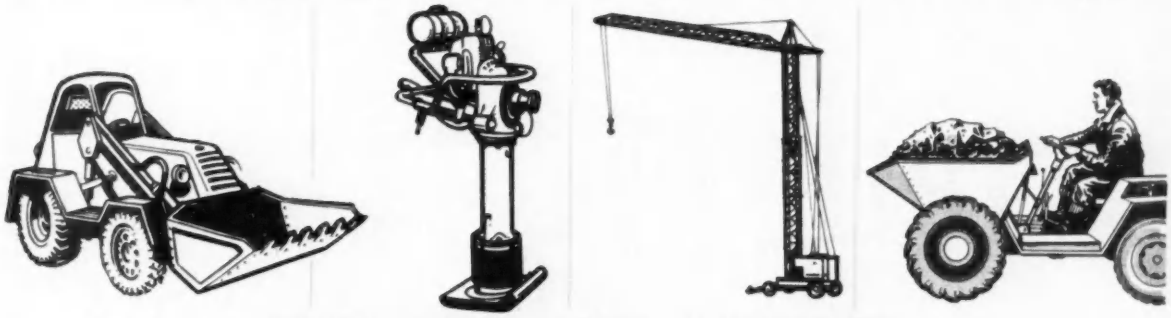

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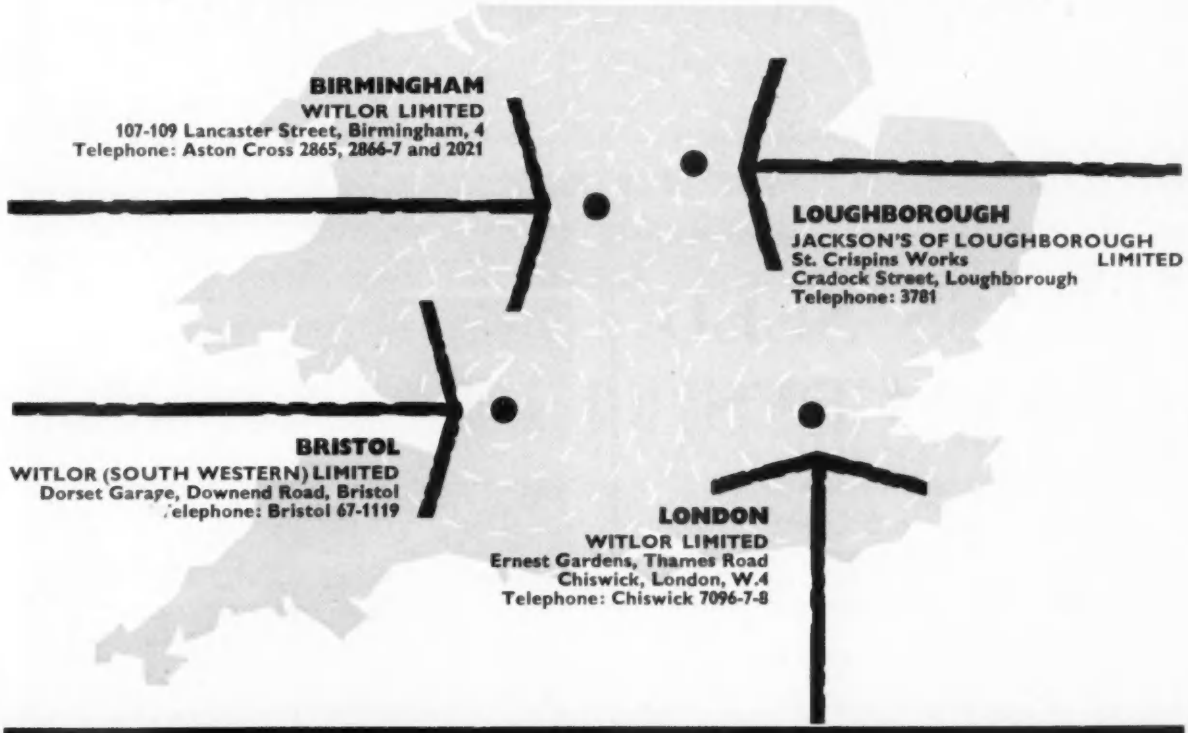


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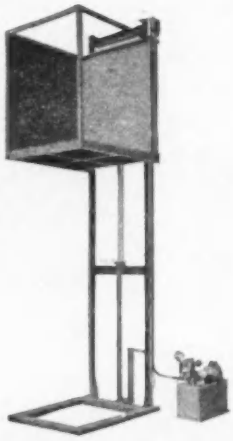

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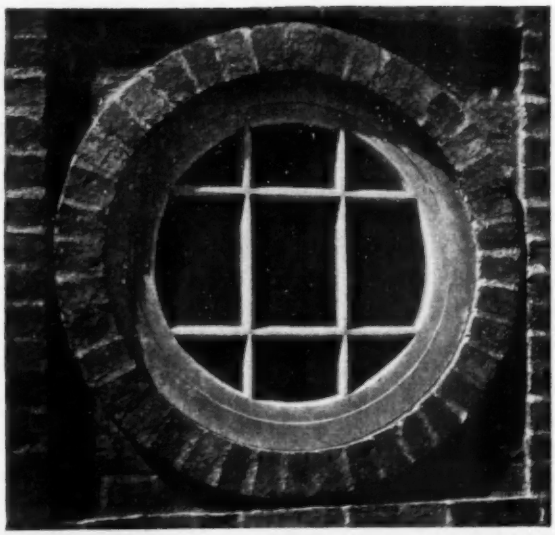

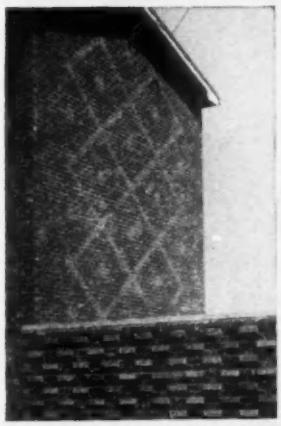

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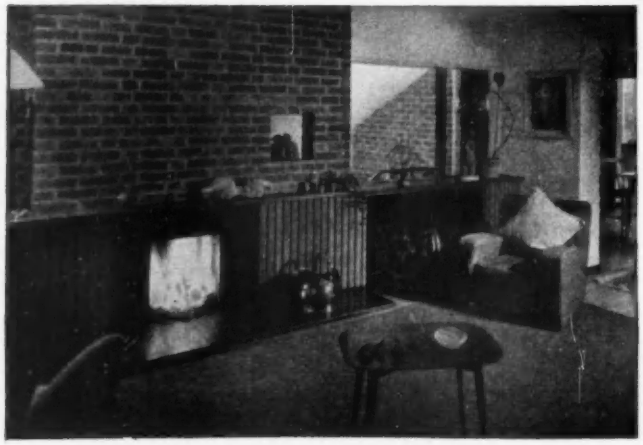

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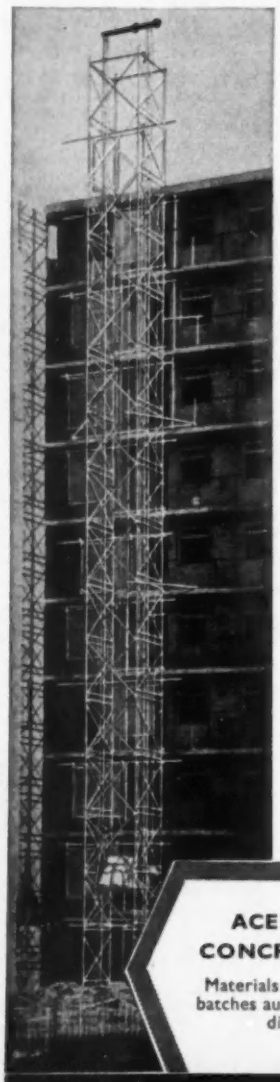

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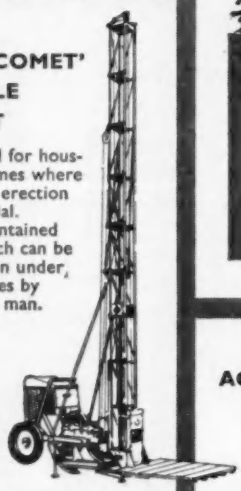

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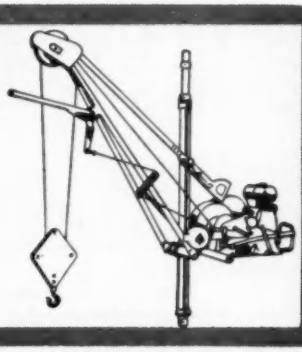

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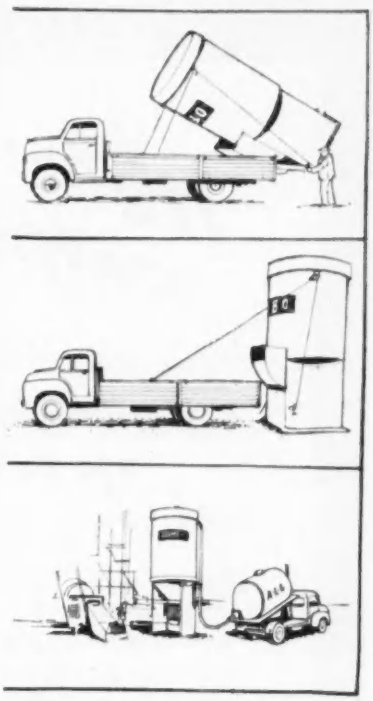

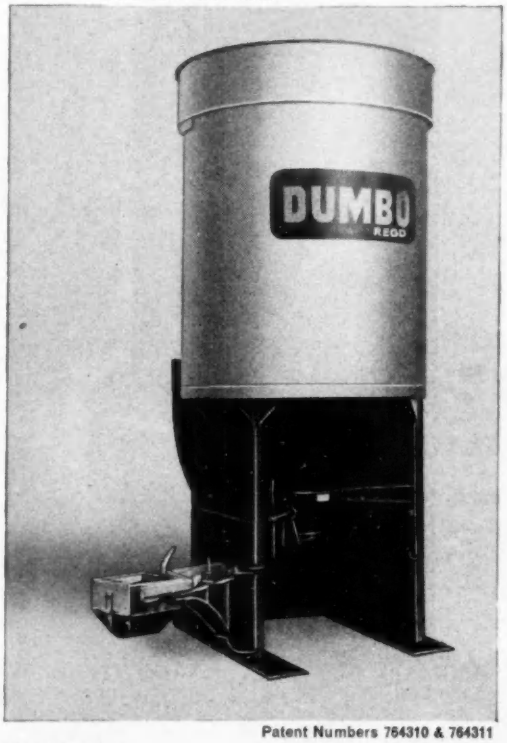


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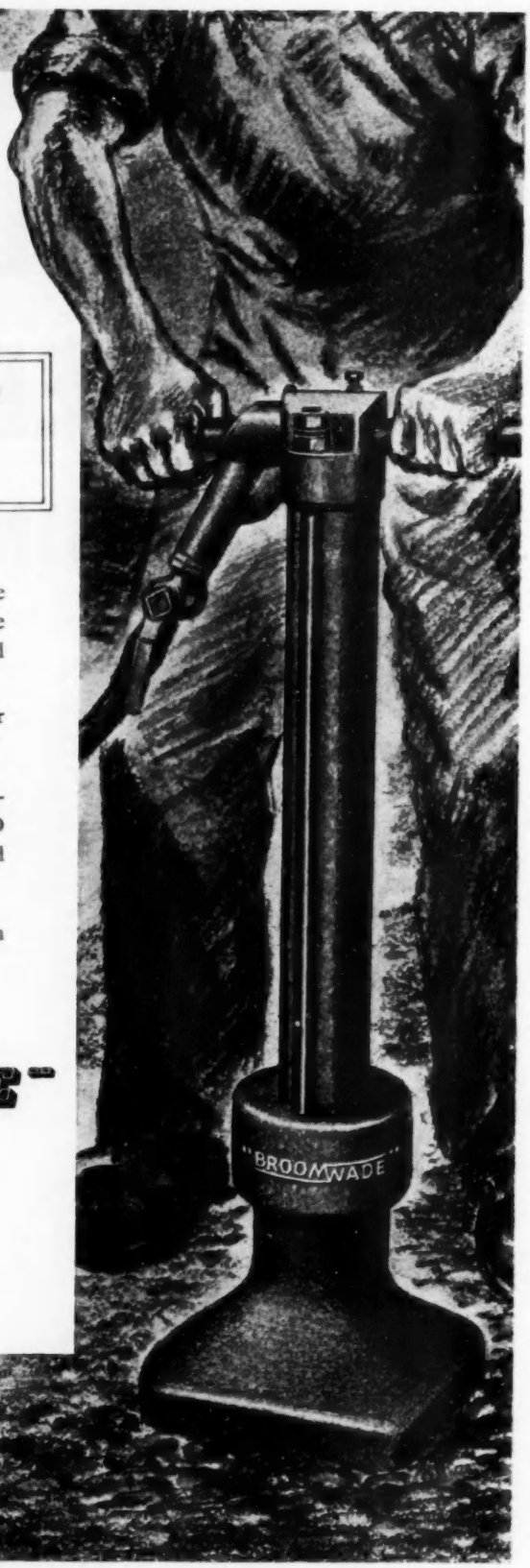


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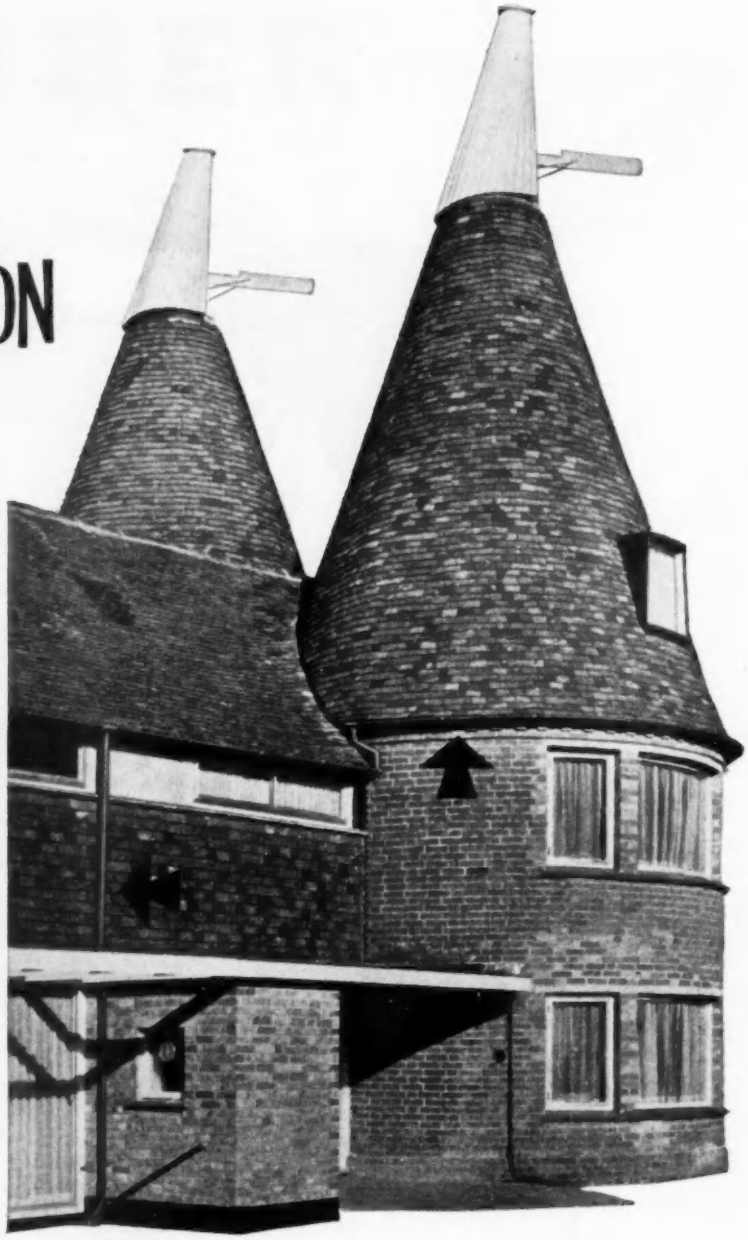

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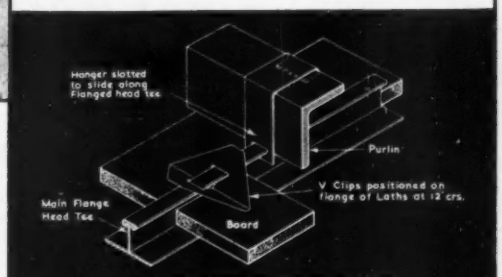


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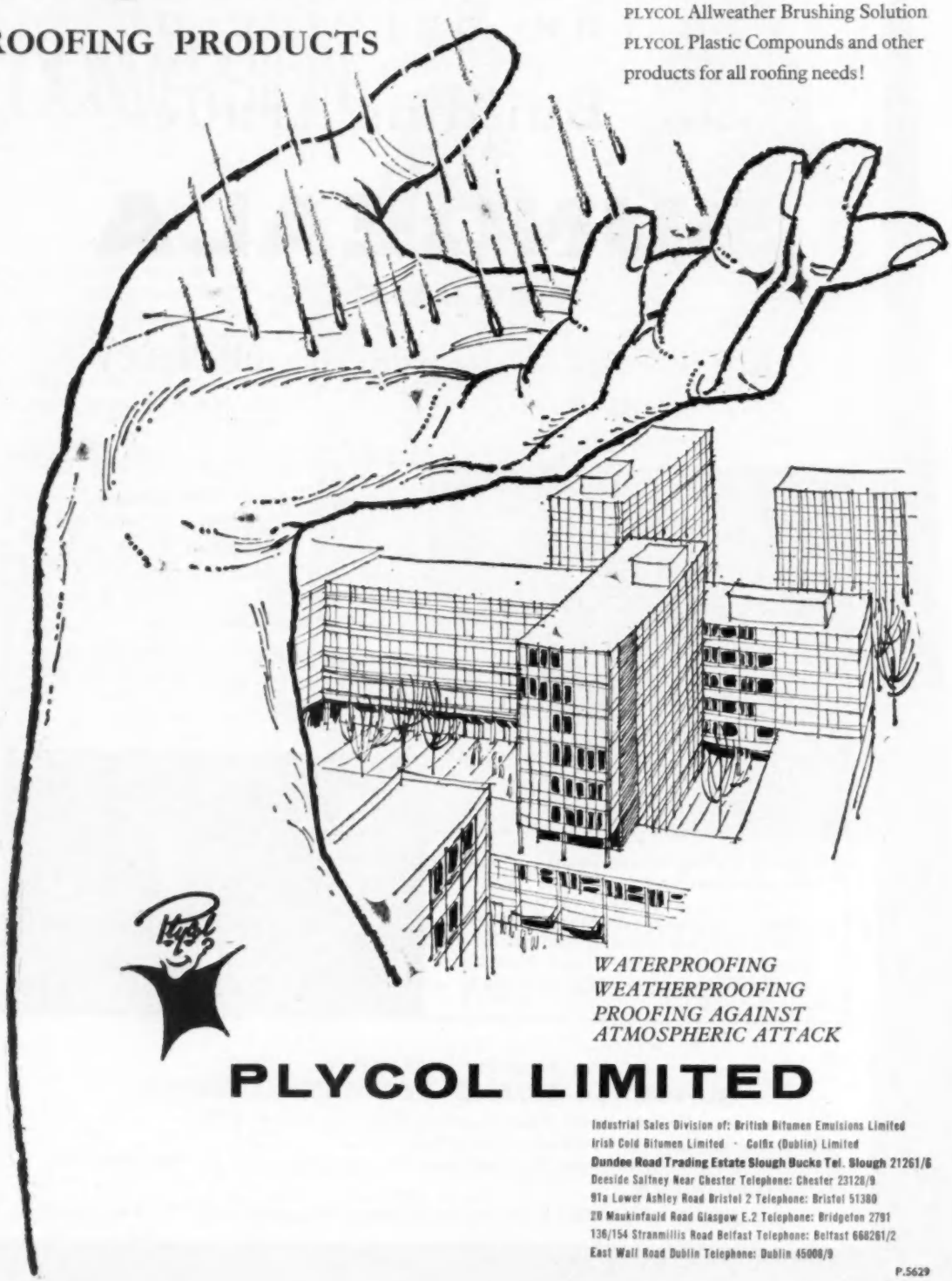

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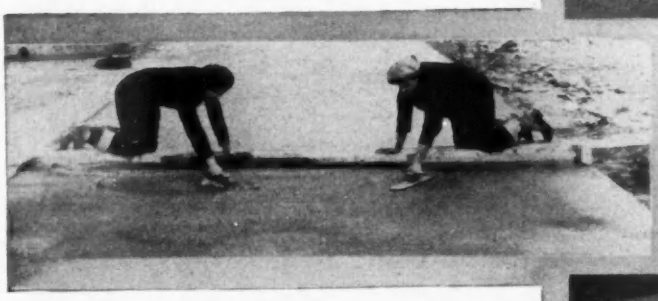

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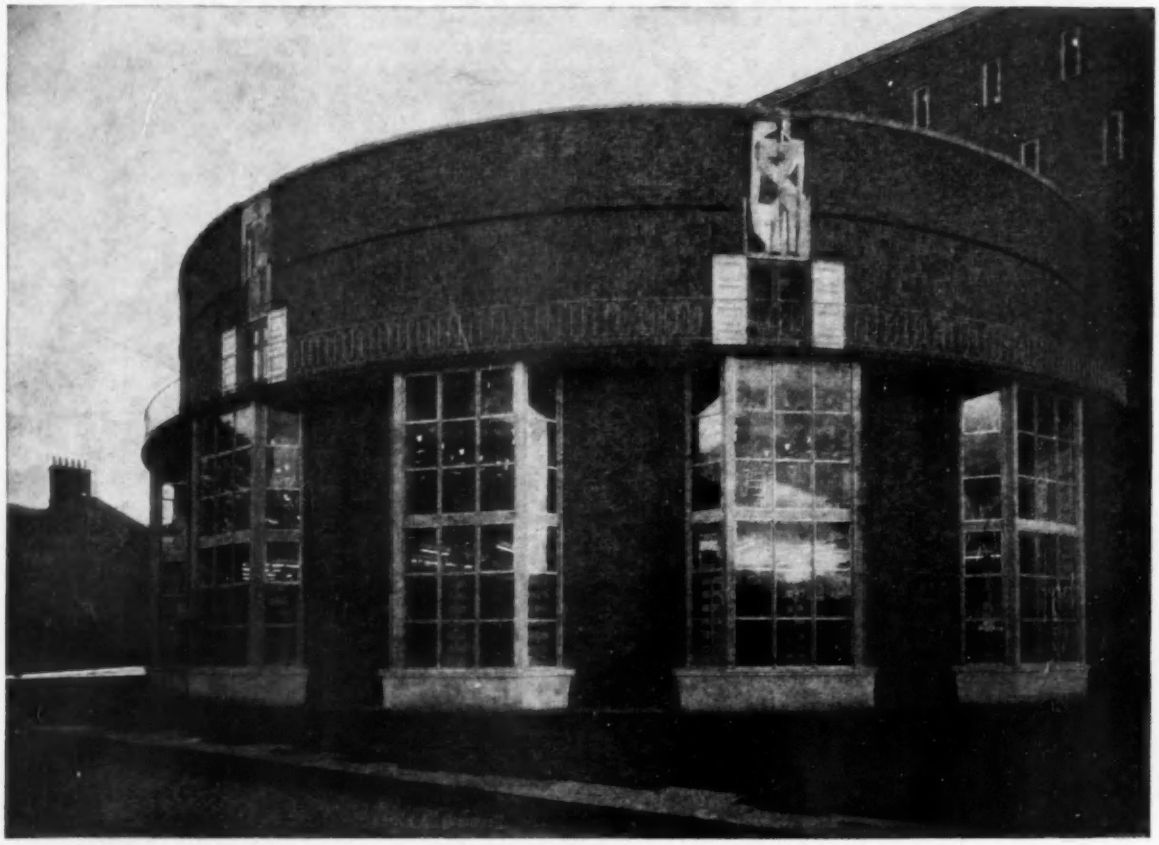

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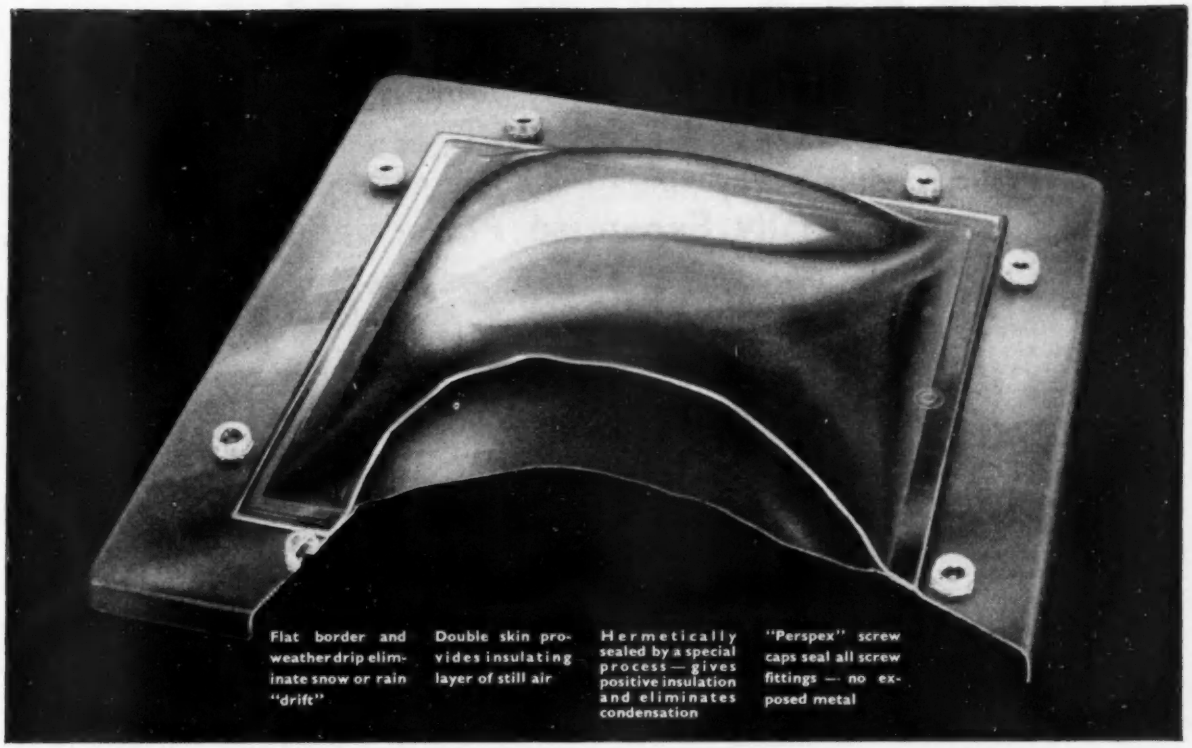


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# Sir George Gilbert Scott

## *the neo-gothic dynast*

It is fortunate for Scott's reputation that he escaped inclusion in Lytton Strachey's *Eminent Victorians*, for he would have provided a sitting target for that mordant critic's venomous arrows. Nevertheless, he was violently attacked as a vandal for his restorations of our old cathedrals, and his work in that field was the direct cause of the foundation in 1877 of the S.P.A.B. (the "Anti-Scrape") by William Morris. Another bitter critic, of his work at St. Albans, was Sir Edmund Beckett. One way and another, Scott probably incurred more abuse than any English architect, before or since his day; but the fact remains that, with certain reservations, he was a really great man. He was stung by criticism into writing his *Recollections*. That was a pity, for the book is frankly an apologia, altogether too smug, though admittedly it was not published until after his death. However, it did effectively refute many of the wild charges made by his enemies. He rose to fame the hard way, being the son of a poor country parson; started practice by building a number of workhouses for which he unblushingly touted; and won competitions for the Martyrs' Memorial at Oxford in 1840 and for St. Nicholas' Church, Hamburg in 1844. At about the same time he undertook his first church-restorations, followed by Ely Cathedral in 1847. His enormous practice ultimately included many hundreds of churches—new or restored—and 39 cathedrals or "minsters". In his favour it must be admitted that by restoration he saved far more than he destroyed; and much of his work (e.g. the chapter-house of Westminster Abbey) bears witness to his profound knowledge. Conversely, he was prone to make the restored cathedrals look too mechanical and shiny within. His preference for Decorated Gothic of the 14th century sometimes led him to remove old features not in keeping with that style, and his treatment of St. Michael's, Cornhill, in London designed by Wren did indeed constitute vandalism. His college chapels at Oxford and Cambridge show no sympathy with the *genius loci*. St. Mary's Cathedral, Edinburgh, and his other new churches (e.g. Camberwell, Ealing, and Kensington) are, for the most part, excellent designs. Among his secular new buildings, Glasgow University, St. Pancras Station Hotel, Leeds Infirmary, and the Great Hall of Bombay University, are all satisfactory enough—if one happens to like that sort of thing. But of all his work, the Albert Memorial is perhaps the most typical of him and his period. After enduring a spell of contempt among Edwardian critics, it has suddenly and unaccountably come back into favour. To those who still dislike it, its defects—apart from its mere grandiloquence—may be mitigated by Scott's own admission that his idea was based upon those tiny jewelled shrines for relics, that stood on medieval altars (multiplied a hundredfold in size and surrounded by white marble lions, symbols of Empire, and what not). Finally Scott gets full marks as the founder of an architectural dynasty—comparable with those of Wyatt, Adam and Waterhouse.

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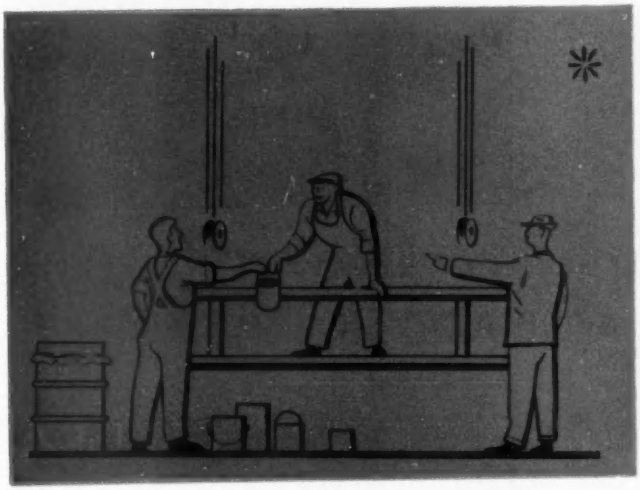

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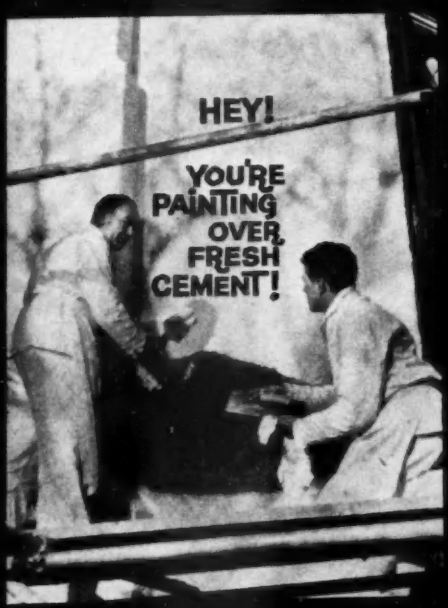

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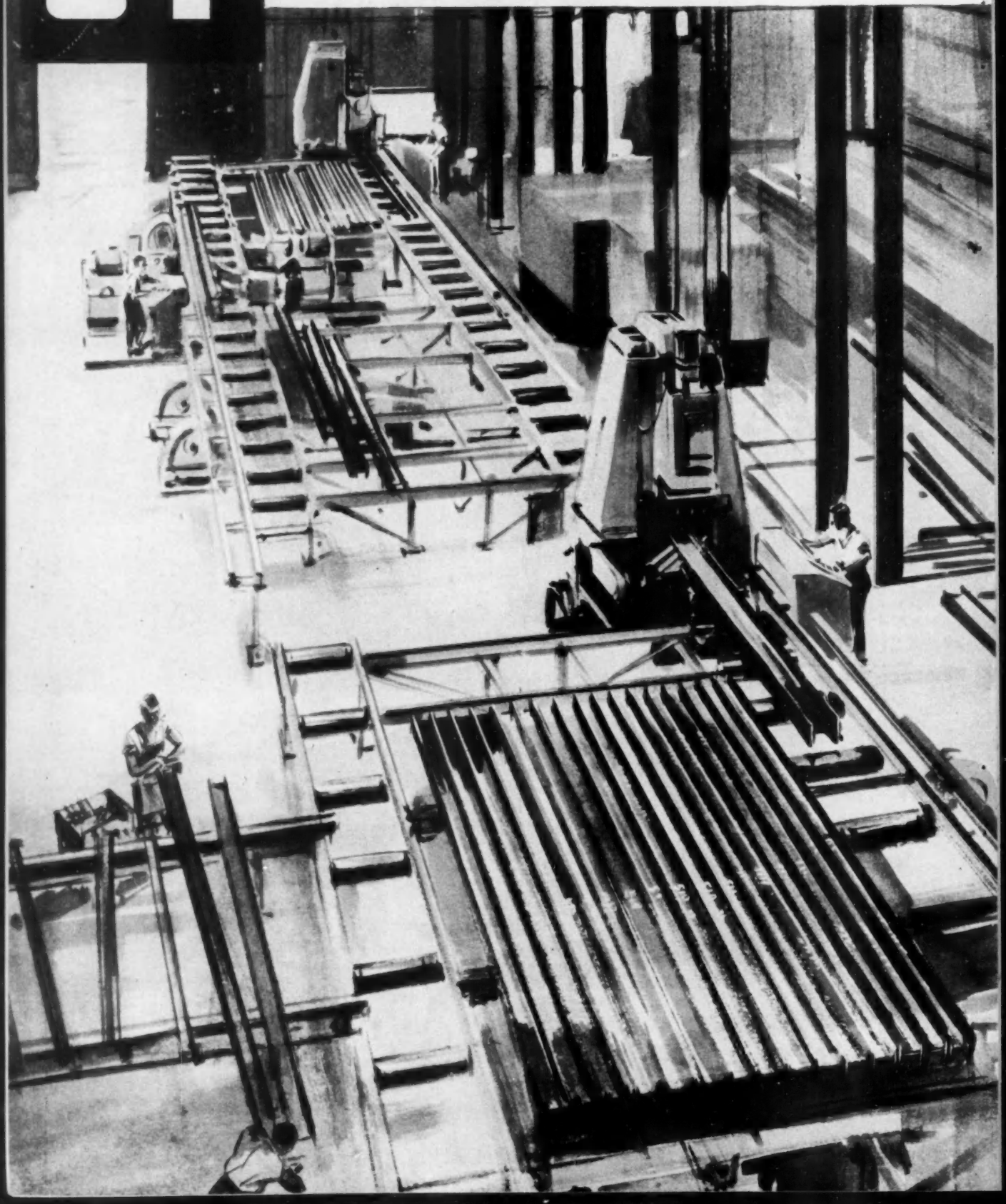

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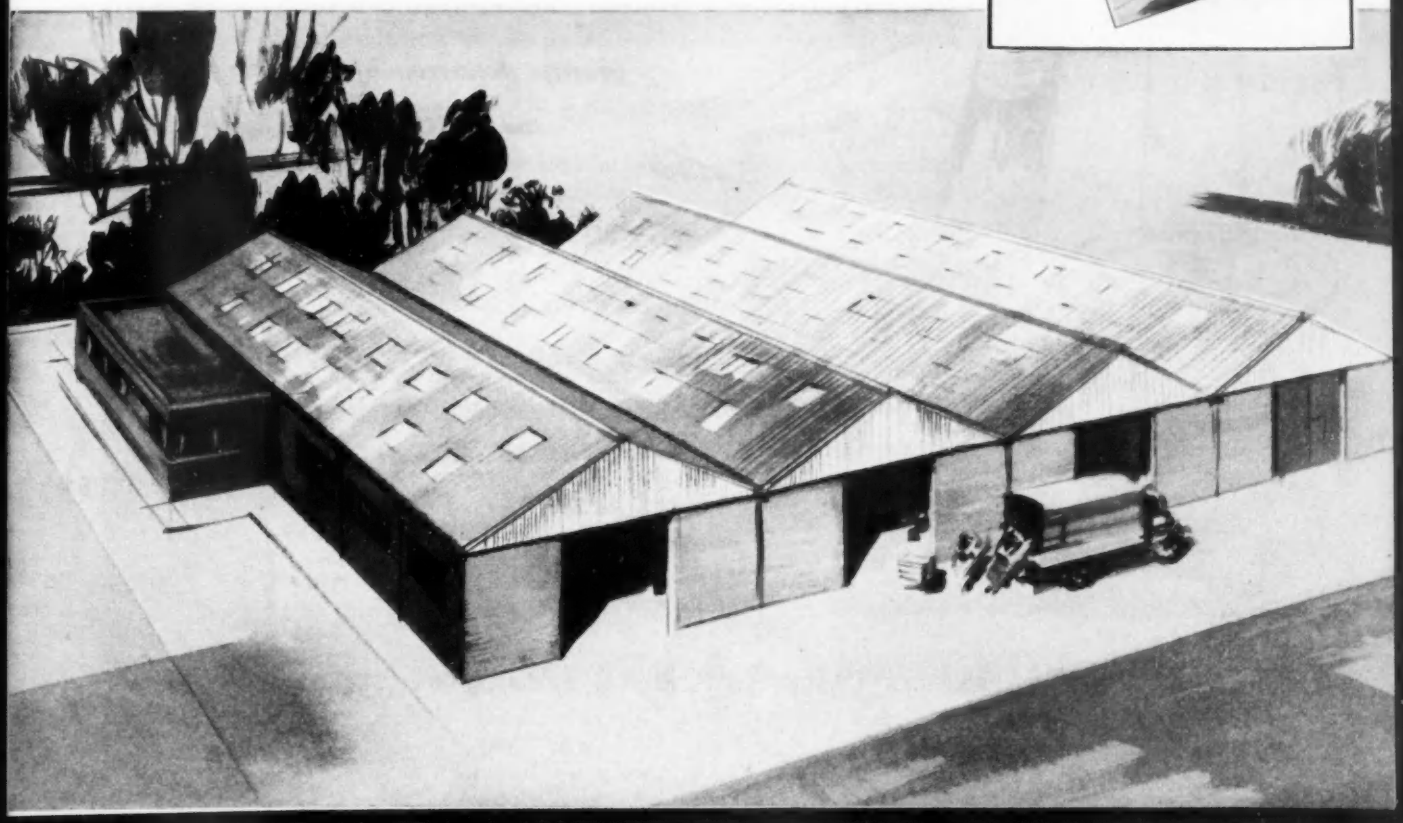

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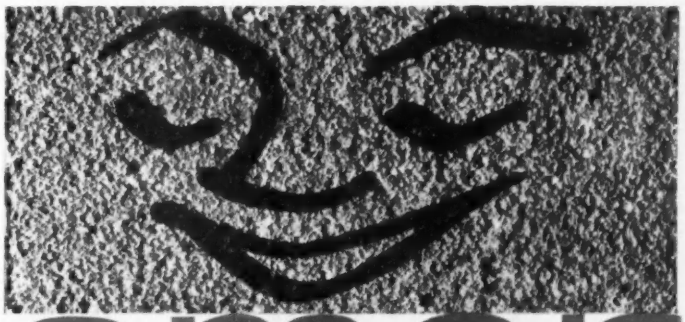
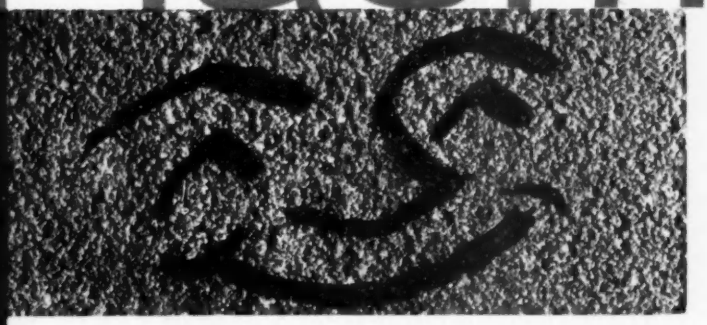


# Plasmor



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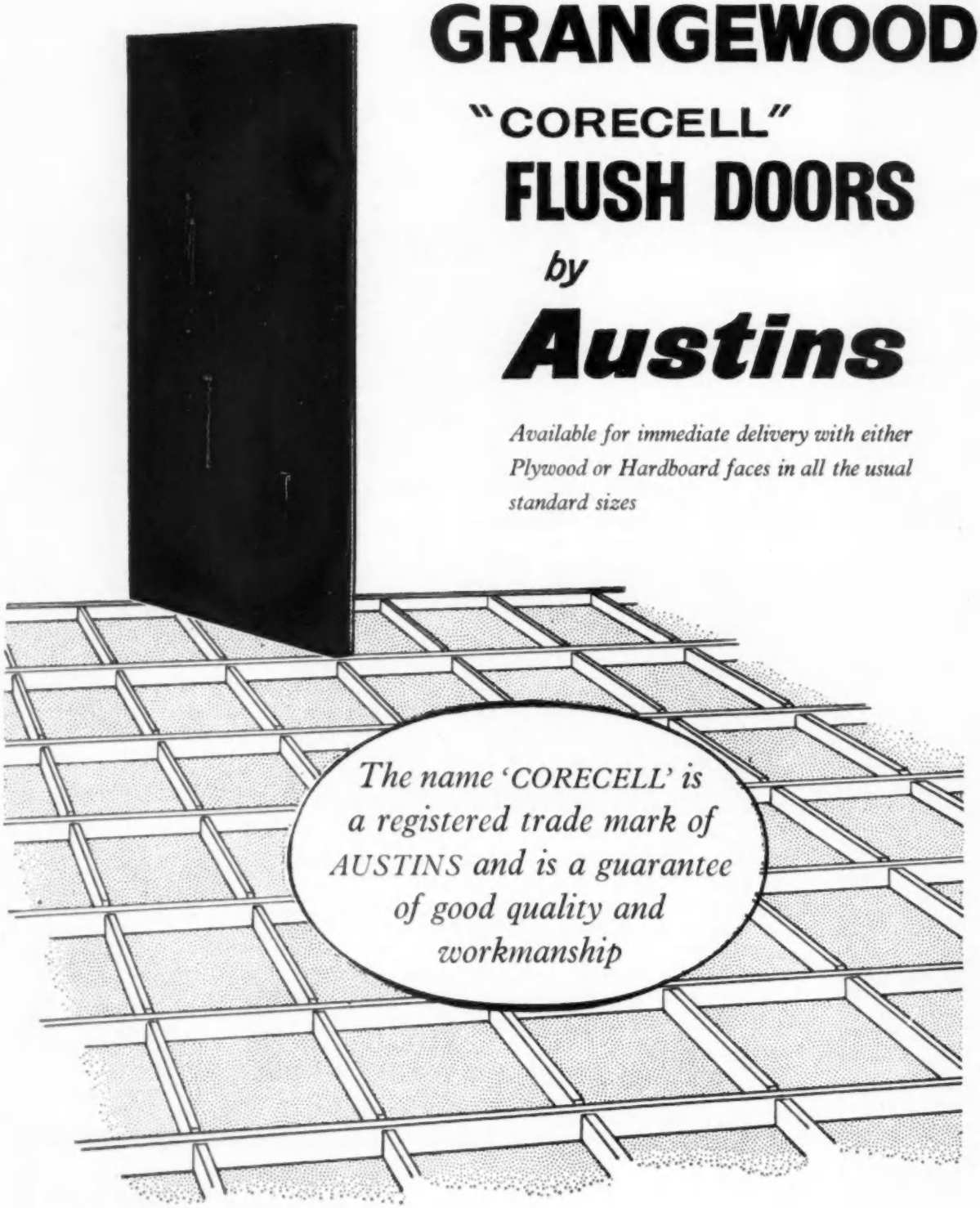


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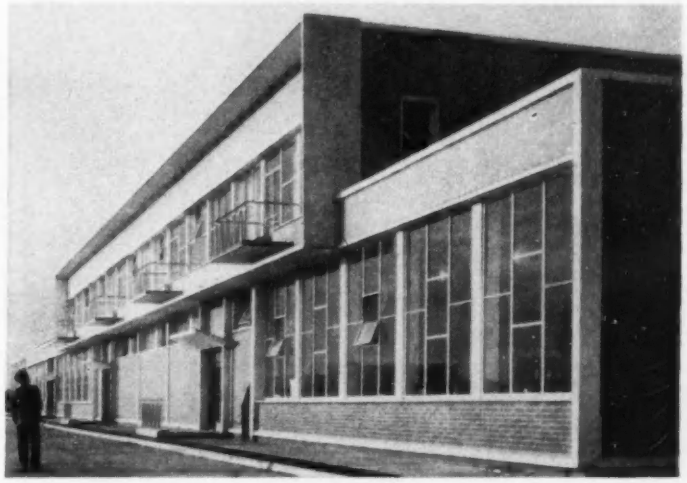

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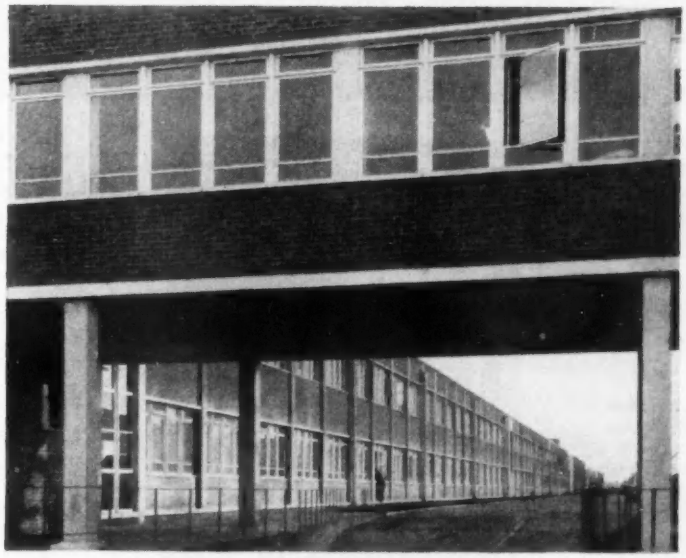

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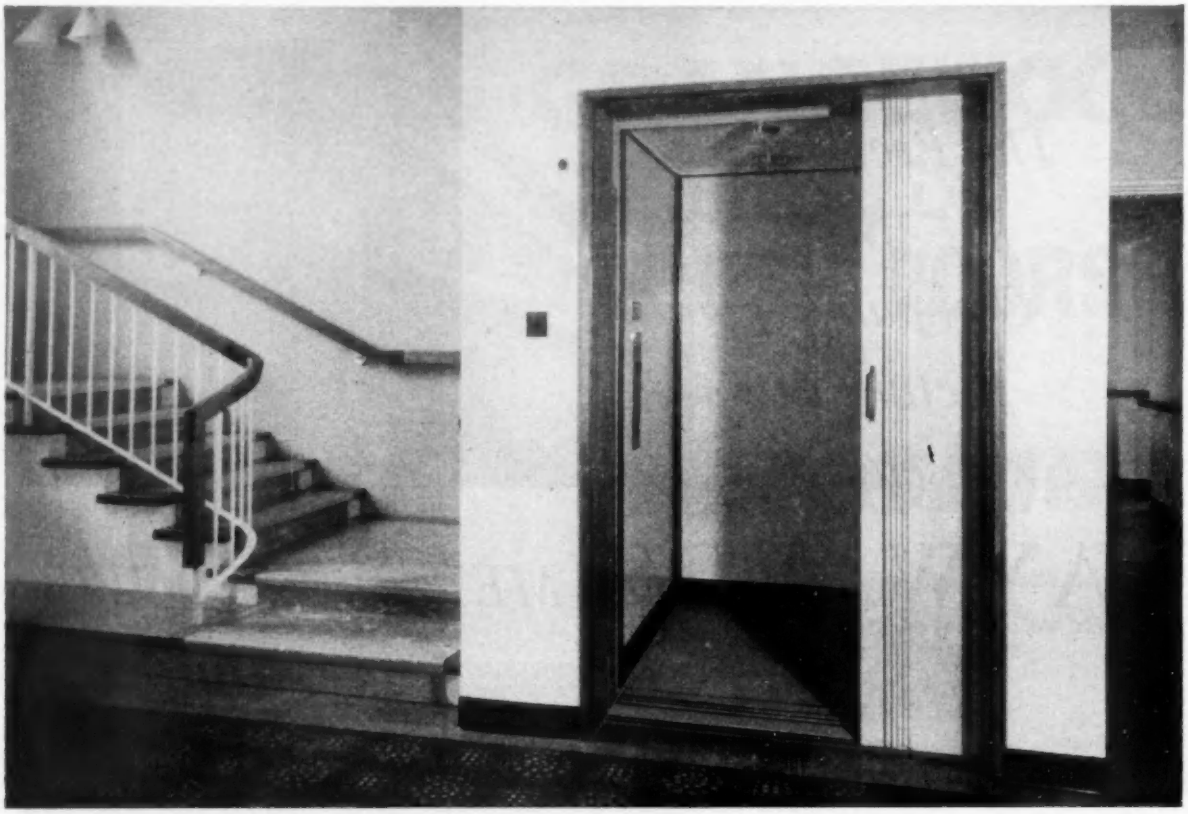

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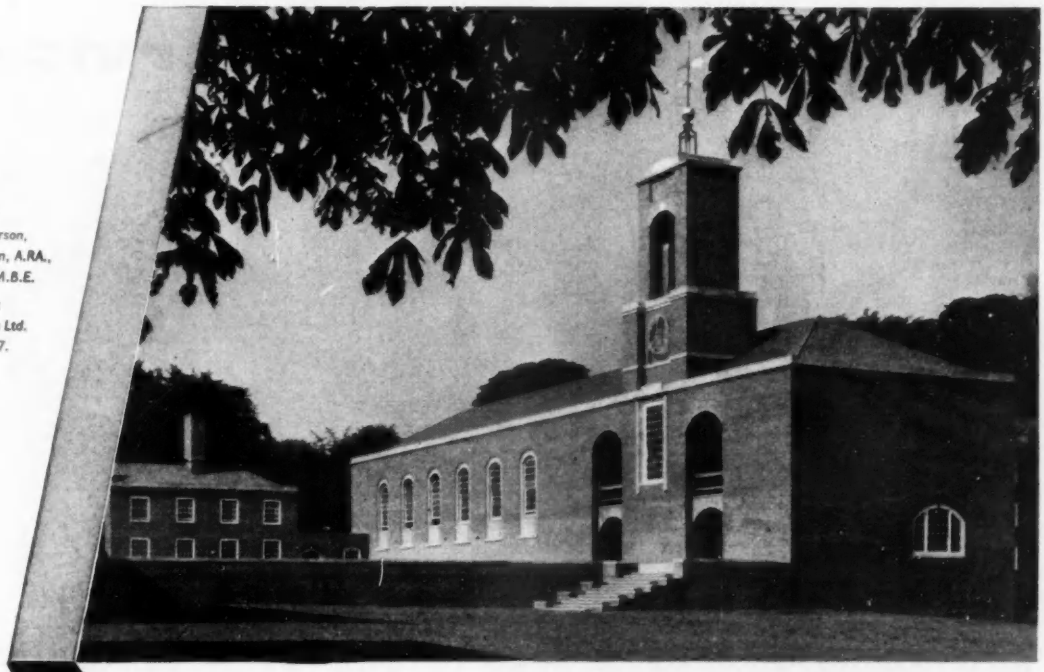

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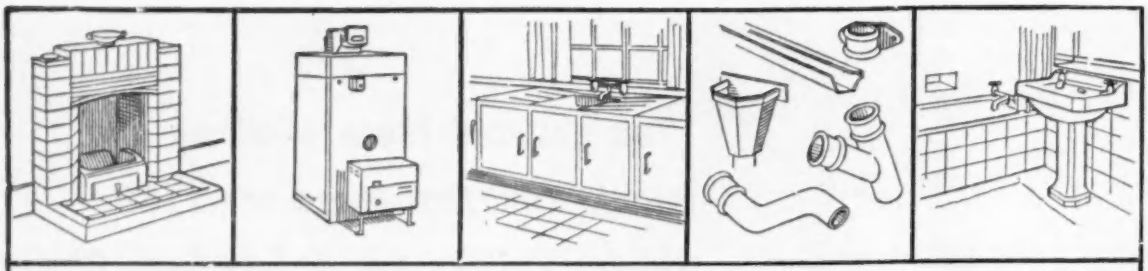

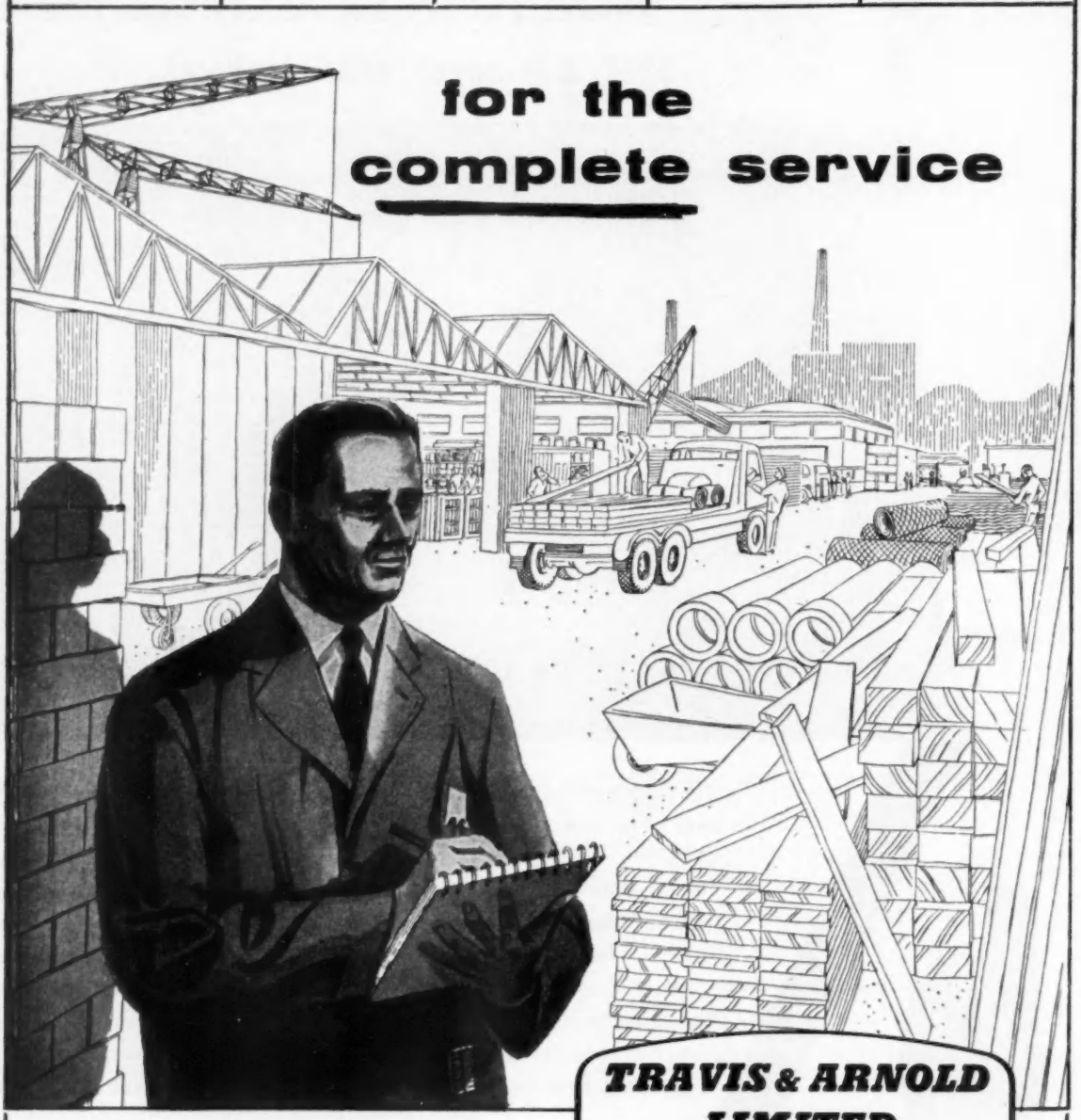


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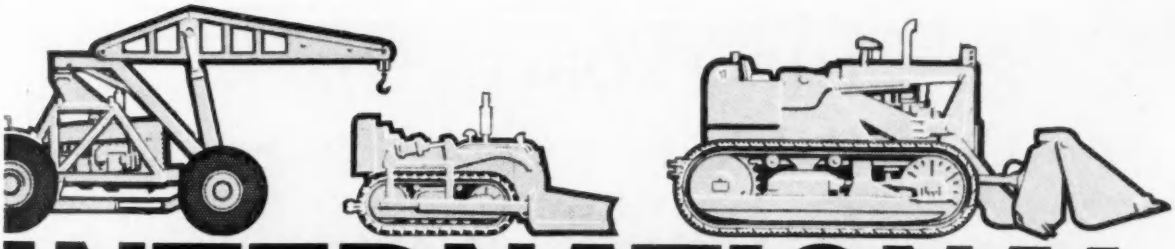

# INTERNATIONAL

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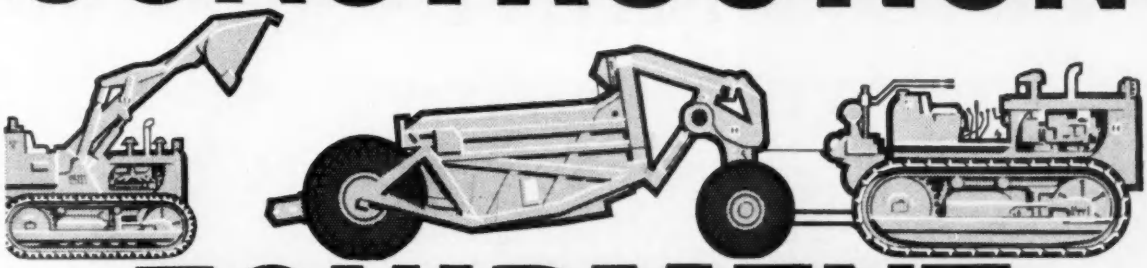

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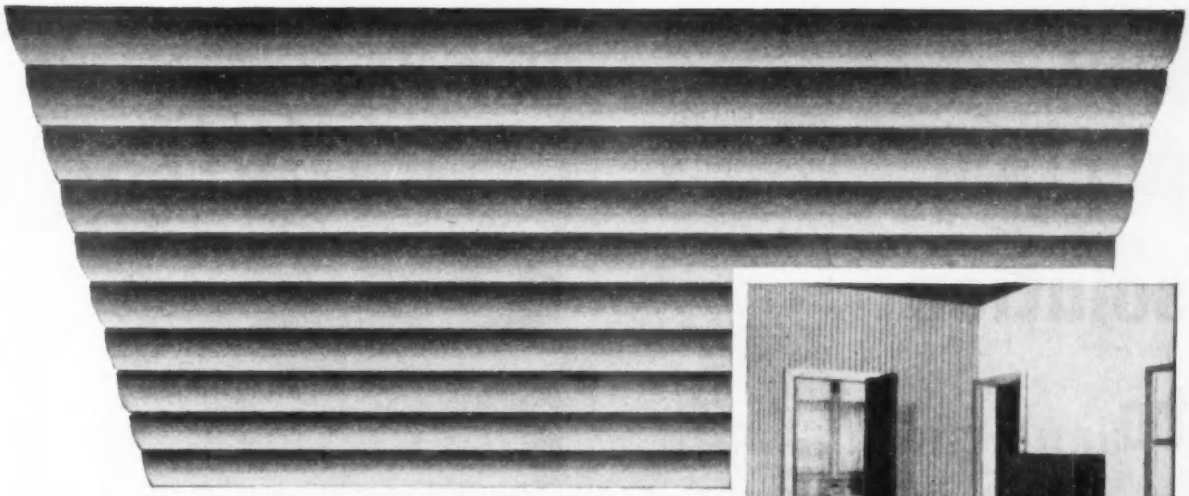

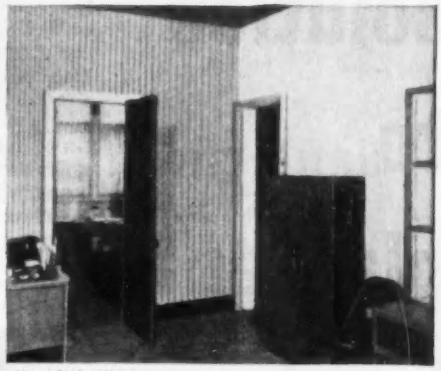

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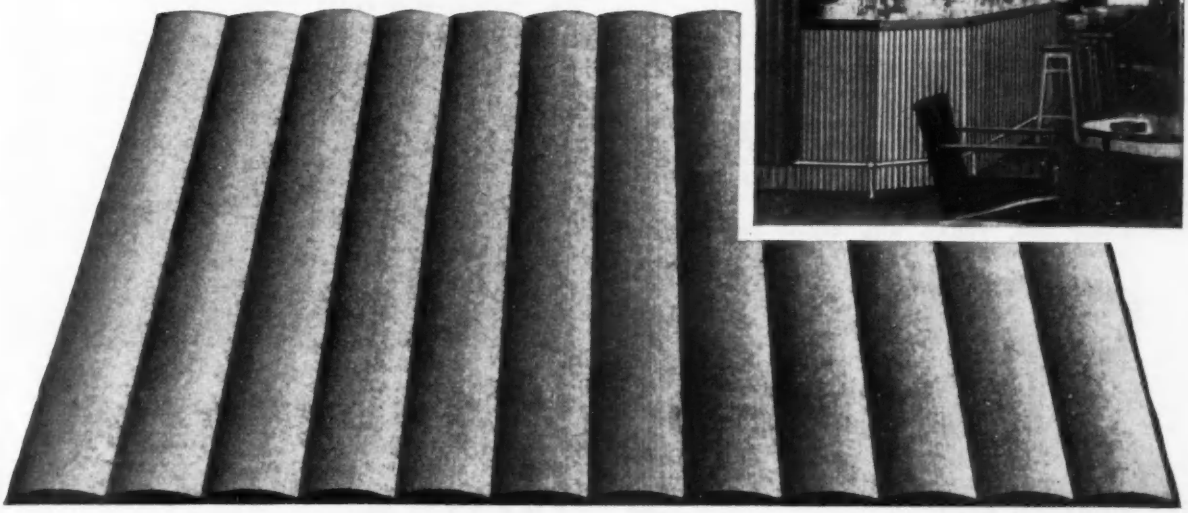

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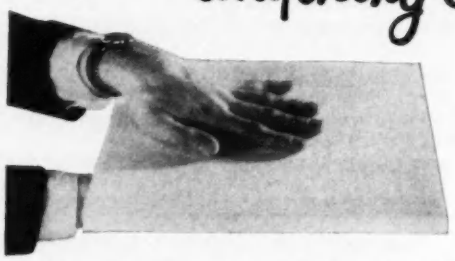

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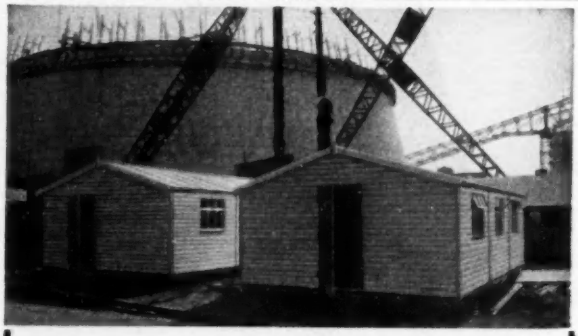

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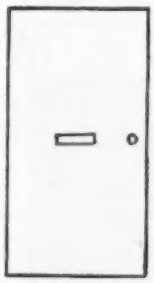

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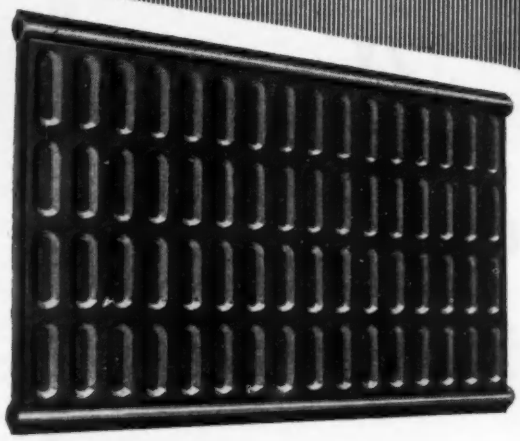

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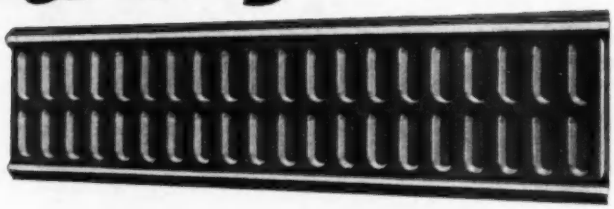
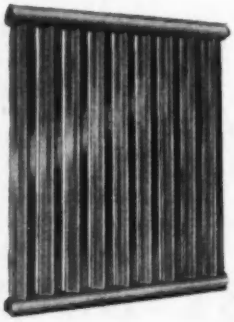


## and COPPER WATER RADIATORS



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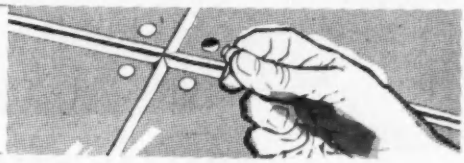

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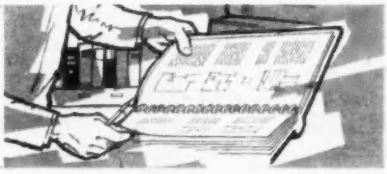

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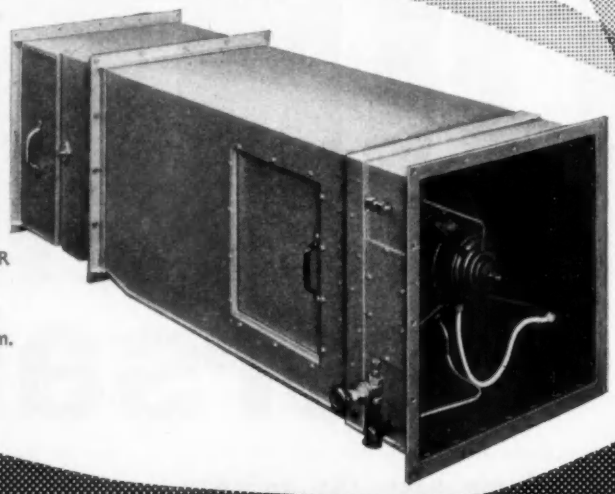

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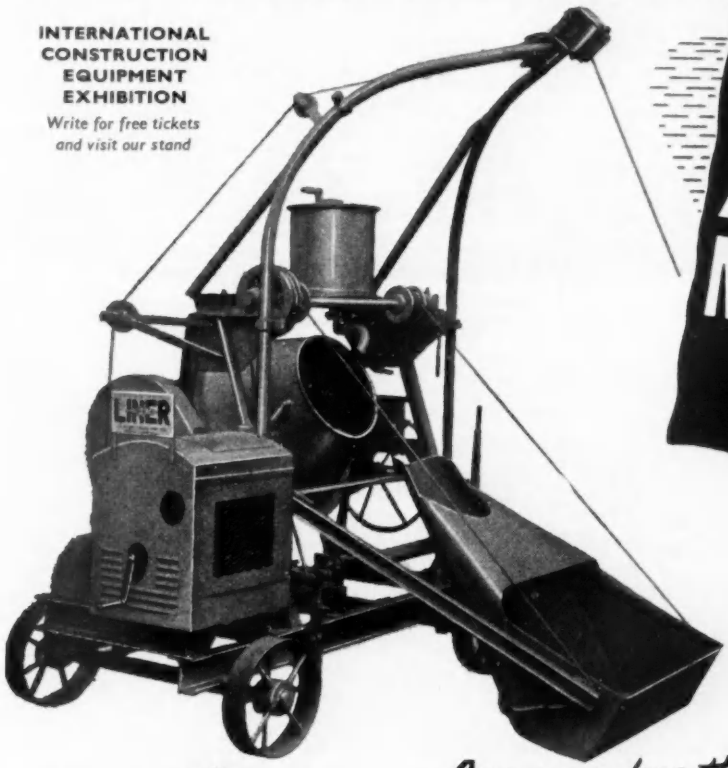


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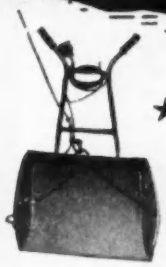

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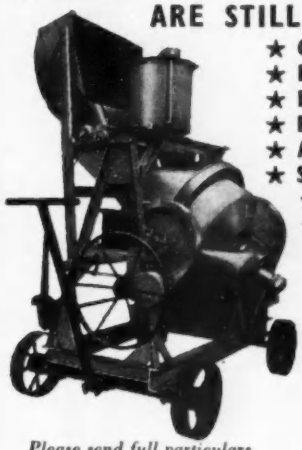

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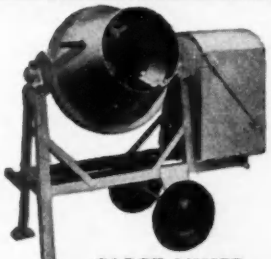

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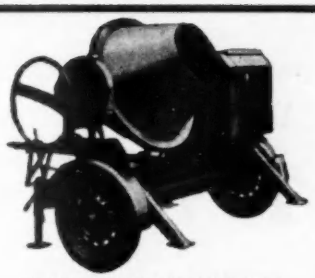

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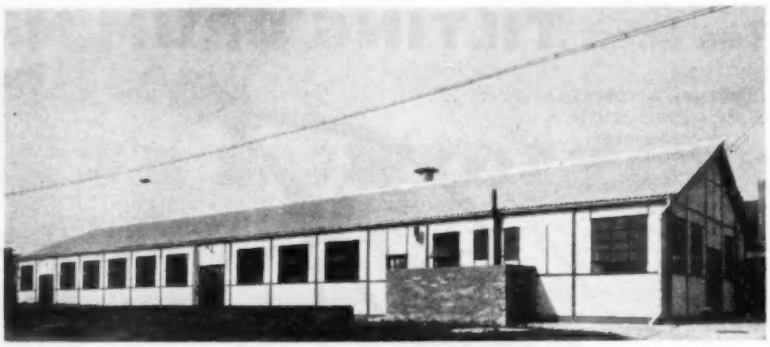
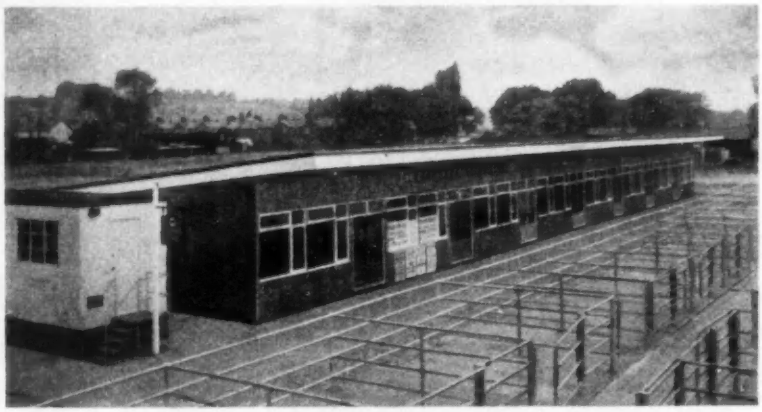
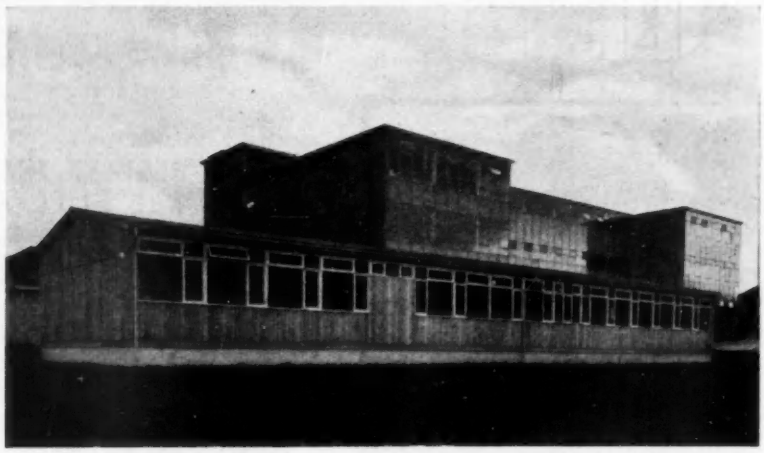


Timber framed Factory Canteen.
*Photograph by courtesy of Thomas Harrington Ltd., Hove, Sussex.*



Temporary Services Block, 150 ft. by 30 ft. for Salisbury Cattle Market.
*Photograph by courtesy of The City Engineer, City of New Sarum.*



Temporary Classrooms, Speedwell Secondary Boys' School.
*Photograph by courtesy of The Chief Education Officer, City & County of Bristol.*

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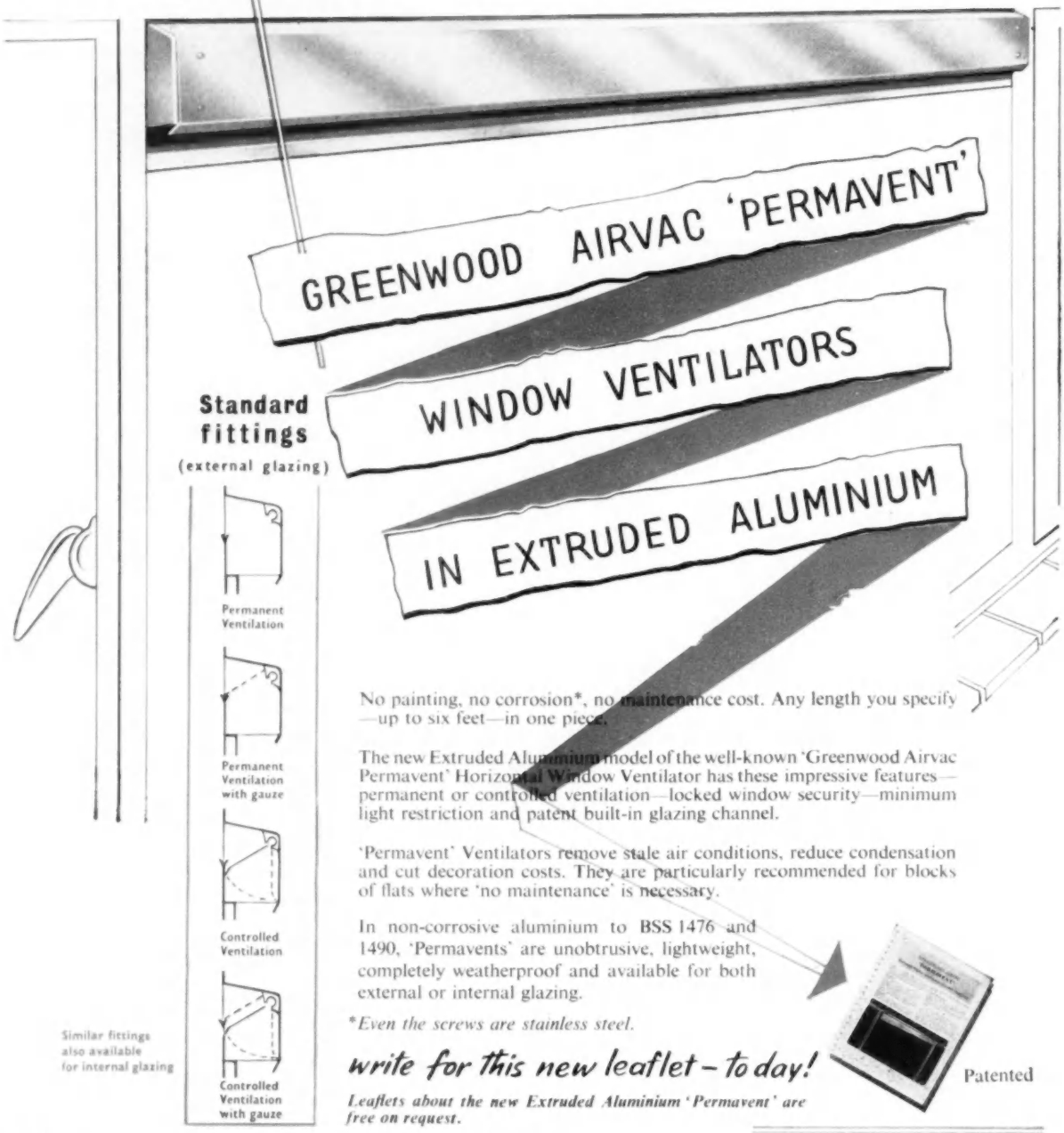


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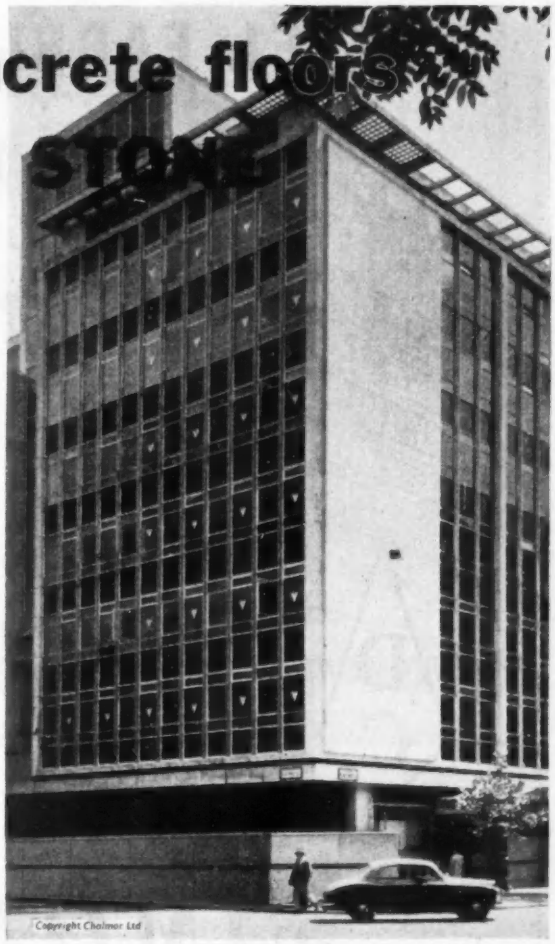


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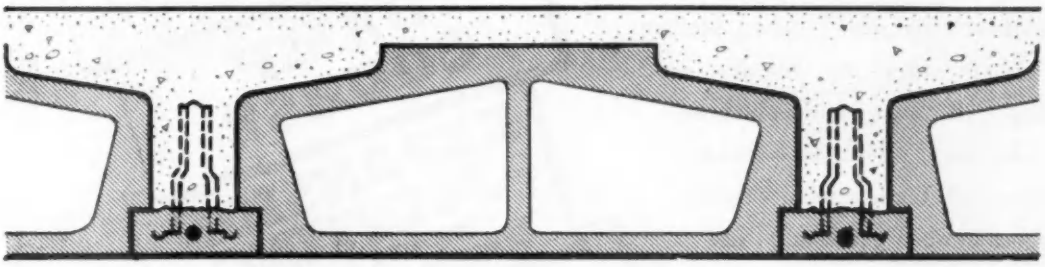

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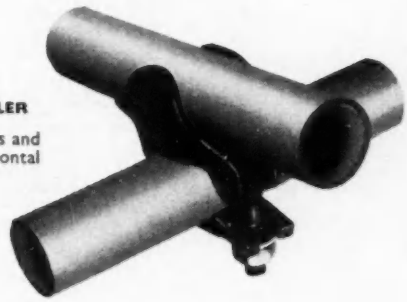
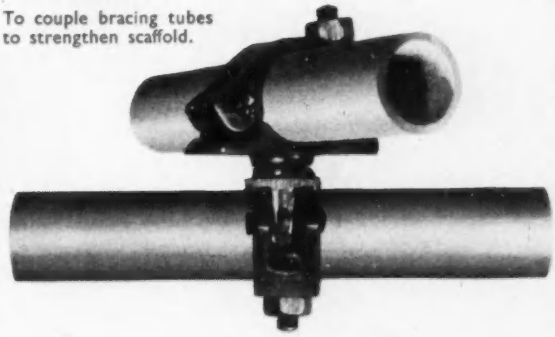


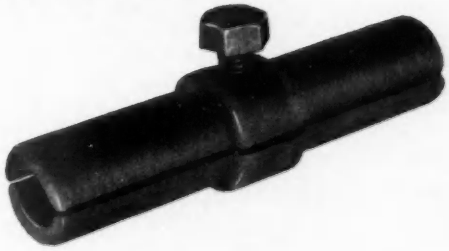
**SWIVEL COUPLER**

To couple bracing tubes to strengthen scaffold.



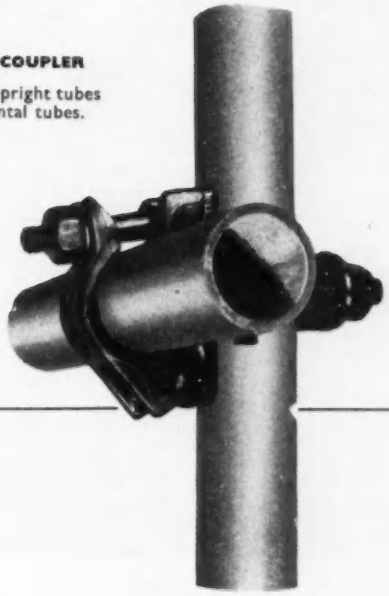
**EXPANDING JOINT PIN**

For joining tubes end to end.



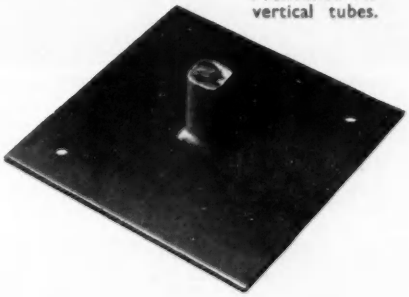
**DOUBLE COUPLER**

Couples upright tubes to horizontal tubes.



**BASE PLATE**

Foundation for vertical tubes.



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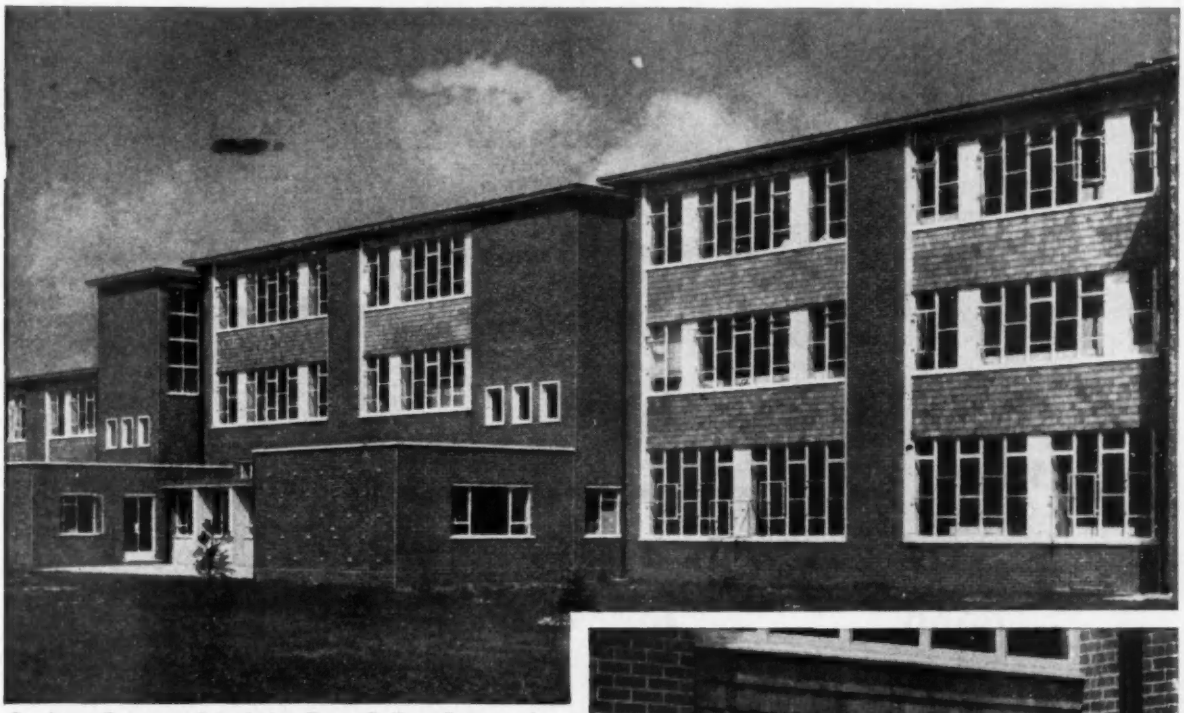

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City Architect, Frank Mellor, F.R.I.B.A.

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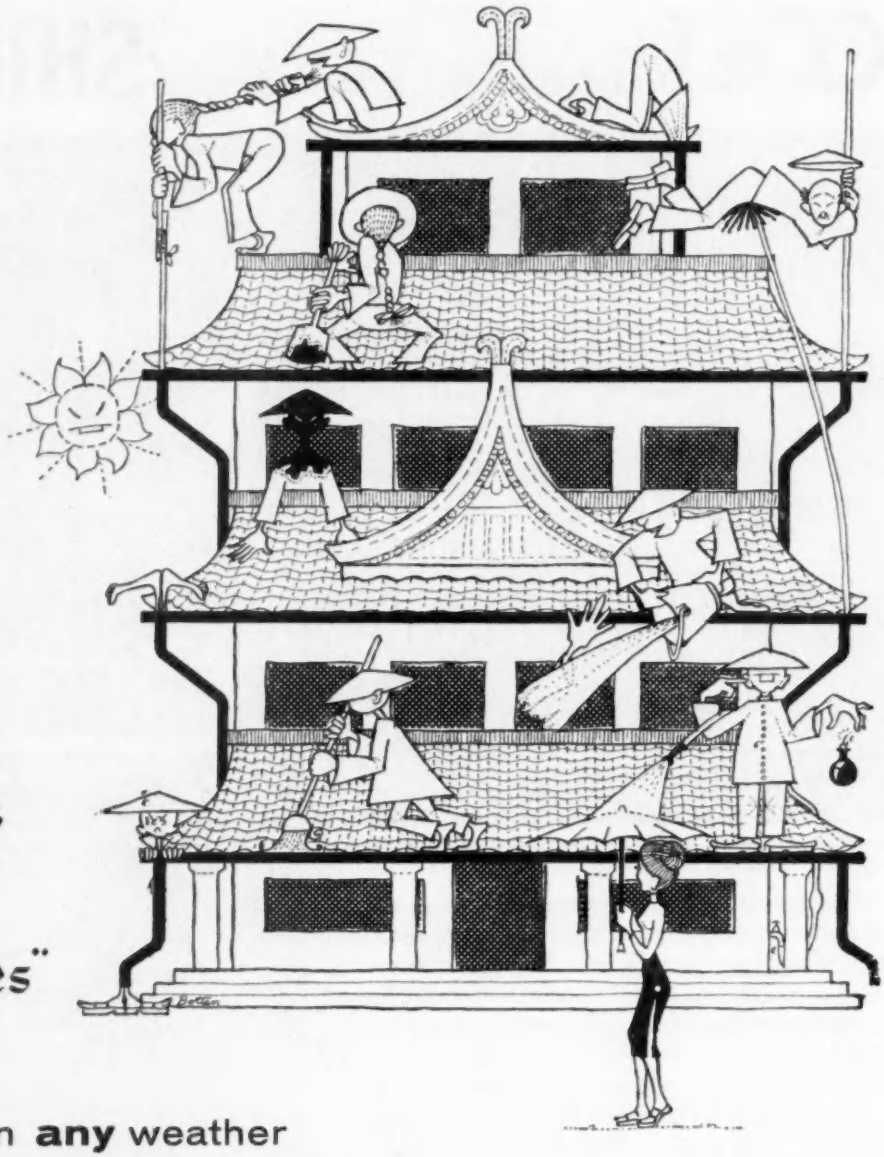

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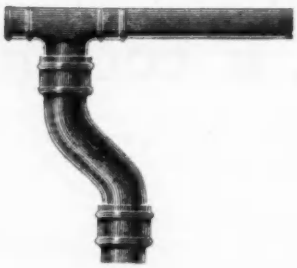

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## News Summary


**1080** The award is announced in the international architectural competition for new library buildings for Trinity College, Dublin.

**1081** The development of the Keble Triangle, Oxford, which is to serve as an extension of the University's Science Area, is described by Reginald Cave.

**1094** The RICS have announced the results of their Final Examinations held recently.

**1095** The Department of Architecture at Kingston School of Art is the subject of the second supplement in the monthly series on the schools.

**1100** The Association of Official Architects 'must examine the possible effects of adopting a double tier profession on architects in official practice, and formulate a policy on this issue,' the Chairman told the AGM.

**1103** The Minister of Labour has appealed to every MP to use his influence to make clear to employers and the unions the need to take a fresh look at training, and to put aside out-of-date attitudes.

**1105** A preview is given of exhibits at the International Construction Equipment Exhibition, which is to be held at the Crystal Palace, London, from June 15 to 24.



*'Late News' will be found overleaf, and 'News of the Week' on page 1093*

## *Late News*

### New Honours Course for Planners

A NEW HONOURS DEGREE COURSE in land use studies was announced on Wednesday by the Department of Town and Country Planning, King's College, Newcastle upon Tyne. The new honours course will extend over four years, and the degree will carry the title of 'BA Honours in Land Use Studies' and a candidate may enter direct from school on matriculating. The head of the Department is Professor J. S. Allen, BArch (L'pool), FRIBA, MTPI.

The new degree has the following distinctive characteristics: There are three options, namely (I) Town and Country Planning, (II) Urban and Rural Design, and (III) Real Estate. Although the three options will lead to three separate professional qualifications, all students will do a considerable amount of work together. For the first time, the subjects of the course clearly establish Planning and Land Use Studies as a discipline in their own right.

### 'Architecture Today' Exhibition

THIS EXHIBITION has been sponsored jointly by the Arts Council of Great Britain and by the Royal Institute of British Architects and will be on show at the Arts Council Galleries, 4 St. James's-square, SW1, from June 28 to July 29 (Mondays, Wednesdays, Fridays and Saturdays 10-6, Tuesdays and Thursdays 10-8). It has been timed to coincide with the Congress of the International Union of Architects, which will be meeting in London at the beginning of July. The exhibits cover a selection of the best building work executed during the last ten years and were chosen by a panel consisting of the Hon. Lionel Brett, Sir Hugh Casson, Mr. John Killick, Mr. John Piper and Mr. J. M. Richards. Mr. Trevor Dannatt and Mr. Alan Irvine designed the exhibition and Mr. J. M. Richards has written an introduction to the catalogue.

### Sugar Silos for Russia

A CONTRACT, valued at £7½m., for the design and supply of all plant for two beet sugar factories in the Soviet Union has been awarded to Vickers and Bookers Ltd., London, by Techmashimport of Moscow, who are represented in Britain by the Russian Trade Mission, permanently resident at Highgate, London. Four large sugar silos worth over £½m. have been designed for these factories in the office of the chief civil engineer of John Laing and Son Ltd. Two silos are to be constructed at a factory at Brukhovetskij in the Caucasus and two at Nikolaevskij on the Black Sea coast. Construction work is likely to begin on the projects towards the end of this year.

### Manchester Sports Stadium

MANCHESTER CITY finance committee on June 6 approved in principle a £621,000 scheme to improve the city's youth service. It includes a sports stadium, a coffee bar and a social centre.

# The Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CC. June 9th 1961 No. 6160

Published from 'The Builder' House, 4 Catherine-street, Aldwych, London, WC2. Telephones: Temple Bar 6251-4.

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## Leading Articles

# A Remarkable Speech

MR. HARRY WEAVER'S Presidential address to the Amalgamated Union of Building Trade Workers on Monday last (it is reported on page 1101) strikes us as one of the most remarkable and far-sighted statements yet made by a building union leader. For the whole trade union movement it carries a message which, if heeded in time by the TUC General Council, could help to save the movement from the condition of near-impotence which has overtaken it—a state in which local influence of shop stewards on the site and in the factory often appears to be stronger by far than that exercised by directives from headquarters.

To the building industry itself, Mr. Weaver gives much food for thought and action. He calls for closer co-operation and unity of purpose between employers and operatives—especially in the matter of conditions on site, wage rates and incentive-bonus. 'Co-operation with the employers in the future must be based upon full recognition and acceptance of each other's role as an essential part of our industrial democracy,' he says. He is candid about present shortcomings of the unions, competition between which for negotiating rights and membership 'gives rise to petty jealousies, rivalries, and demarcation and poaching disputes of such viciousness that struggles with the employers appear tame by comparison. The multiplicity of unions demanding negotiating rights in the same industries makes it wellnigh impossible to develop and co-ordinate long-term policy for improving wage standards and working conditions and in dealing with the problems of new techniques and redundancy.'

In this, Mr. Weaver is right on the target, and he continues the forward line of thinking evident at the NFBTO conference of 1959 on new techniques initiated by SIR RICHARD COPPOCK and seemingly so well received by the Union officials. Little has since been heard of the high hopes then engendered; perhaps, since they centred round a reduction in the number of unions, it was unwise to expect too much too early. With Mr. Weaver assuming next month the mantle of Sir Richard as General Secretary of the NFBTO, confidence is restored that the wider, statesmanlike quality of thought released at that conference will be continued.

One omission in Mr. Weaver's address is a reference to apprenticeship—either in its own right or as a way-in to rationalisation of the building unions. Perhaps by coincidence, perhaps arising from Commonwealth Technical Training Week, the House of Commons has just been debating the question of apprenticeship and training, and in this, MR. ALBERT COSTAIN, MP, raised some interesting points on the length of apprenticeship and the need to introduce new skills, such as fitters and mechanics needed to operate the machines which are increasingly finding their place in building. Those who are in close touch with senior apprentices or have attended courses run for their benefit by, as an instance, the Eastern Federation of Building Trades Employers, are aware that the general run of young entrants through the crafts feel that a 5-year apprenticeship to one trade is too long and would welcome a reduction by at least one year or, alternatively, some later instruction in an allied trade. Their views are valid, as is the need which they recognise to bring the engineering mechanic into the apprenticeship fold. These and other cognate matters ought to be the subject of joint discussion between unions, the employers and technical educationists; such discussion could throw new light not only on apprenticeship and its content but offer a lead-in to rationalisation of the building unions themselves.

# Planning Research

THE PURPOSES of town and country planning were aptly described some years ago by Mr. Harold Macmillan when he said, 'It is more necessary now than ever in our history that the limited acres of this small island should be used to the best national advantage.' The same thought is expressed by MR. F. J. MCCULLOCH, the assistant planning officer for Lancashire, writing in 'Planning Research,' recently published by the Town Planning Institute. 'Planning,' he says, 'may be defined comprehensively as the optimum use of land resources. The optimum is not an absolute concept, but is strictly conditioned by circumstances and the opportunities the circumstances provide.'

To achieve these objectives is no easy task and current trends are likely to make it all the harder. The steady increase in population and the general national prosperity have created an almost insatiable demand for houses; more and more land is needed for schools, playing fields, petrol stations, caravan sites and other forms of holiday. There are the needs of industry, mineral working and agriculture upon which the national prosperity depends. There are also the claims of amenity and especially the green belts and national parks. In some cases, it must seem an almost impossible task to reconcile all these needs; there may be as many as half a dozen desirable uses for the same piece of land.

Generally speaking, the Government and the local authorities have all the powers they need. What is needed now is not more legislation but intelligent policies based on an informed and sympathetic assessment of the problems. Sensible planning requires, in fact, a great deal of basic information that is not always readily available, particularly to private practitioners who have to prepare a case for a public inquiry into an objection to a development plan or a planning appeal. In preparing and publishing 'Planning Research,' the Town Planning Institute have met a long-felt need—a register of research work done, together with a directory of research institutions and an index of research workers. The Register covers research work carried out by local planning authorities, universities and other bodies during the ten years 1948 to 1958. Nowhere else in this country will a comparable record be found. It covers a very wide range of subjects, the use and conservation of land resources, distribution and location of industry, transport and roads, housing surveys, land reclamation. There are, for instance, about fifty entries relating to industrial development and location, each indicating the scope of the work done, the organisation responsible and where the results may be found.

The Register shows that a quite impressive amount of basic research has been done. Given the will on the part of those concerned in planning not to take anything for granted, it should help towards a more informed approach to the control of land in this country. It is to be hoped that the Institute will find it possible to keep the Register up to date; ending as it does in 1958, it omits some important items published since. The Institute might also consider making it more comprehensive; some Government White Papers, although mainly concerned with policy, contain important objective information—an example being the recent Housing White Paper which contains an appendix on slum clearance of vital importance in assessing housing needs in certain localities.

Sound planning requires much more than information. It requires a sympathetic understanding of the basis of industrial and commercial life and of the needs and aspirations of ordinary people. Often it seems that private developers understand these things better. But without information there can be no realistic basis for policy making, and the Town Planning Institute have done a useful piece of work in making this Register available.

# Notes of the Week

## Birmingham: City of Change ; RIBA Council Elections ; Dublin Library Competition ; Seal of Success : Span Housing at Blackheath ; A Guide to Wrest Park

BIRMINGHAM, although recently described as 'one of the most interesting cities in Europe,' has never attracted visitors in search of any historic castle or medieval cathedral, or as the shrine of some long-departed literary or dramatic genius. Such admitted attractions are to be found within a few miles at Warwick, Worcester, Stratford-upon-Avon or Lichfield. Not by any stretch of the imagination can the city be considered as a holiday resort and those large annual political and professional assemblages have little imagination beyond Eastbourne or Scarborough. Apropos the latter it is certainly of interest to note a propensity of hotel accommodation far in excess of such better patronised centres as Manchester where casual accommodation is, to say the least, below average, quite inadequate and unwarrantably expensive. Despite these considerations Birmingham is, and has for some time been, a Mecca for those who are interested in the study of enlightened local government and others concerned in trade and commerce.

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MUCH OF THE OLD CITY was admittedly badly planned, but post-war conditions have permitted extensive rejuvenation to proceed apace thus resulting in one of the most progressive periods in Birmingham's history. As an annual contribution to public relations in a publicity-conscious world the City of Birmingham's information department publishes an illustrated guide. The current edition of this well-produced booklet shows that Birmingham is indeed 'a city of change.' In the centre alone rebuilding schemes costing some £35m. have recently been completed or are in progress and in the immediate future a further £50m. is likely to be spent. In the field of housing and local amenity much credit must go to the lively architect's department under Mr. A. G. Sheppard Fidler, its progressive city architect.

Although today the skyline, now because of the introduction of smokeless zones remarkably clear of industrial haze, is serrated with a network of giant cranes and other tools of the modern builder, and many of the older buildings are being somewhat unceremoniously demolished to be replaced by contemporary structures in concrete, steel and glass, one should not forget what it is hoped will remain of the older Birmingham. Such buildings as Joseph Hansom's Town Hall, Thomas Archer's Cathedral Church of St. Philip, Sir Aston Webb's Victoria Law Courts, Pugin's Roman Catholic Cathedral of St. Chad, and several interesting examples of Georgian architecture scattered about the city centre. The new guide places emphasis on redevelopment and local amenity with particular reference to industry and rehousing, and for these alone the city is worth a visit.

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THE REFERENCE to the Town Hall reminds that this building which has only recently had a 'face lift' (it is shown in a new photograph on this page) is to be modernised internally under Mr. Sheppard Fidler's supervision. The scheme of improvements will deal primarily with the subsidiary accommodation and not to a great extent with the auditorium itself, though the chance will be taken of amending the stage front to make a better transition between the auditorium floor and the steps to the stage. The auditorium will be entirely re-decorated. The main accommodation to be provided will be completely new

lavatories, powder rooms, bars and sitting out bays, and artists will find their rooms vastly improved. About £120,000 will be spent, and a contract will be let in August, the intention being to re-open the building in October, 1962. The Corporation deserves thanks for its continuing care of this Birmingham landmark.

### RIBA Council Elections

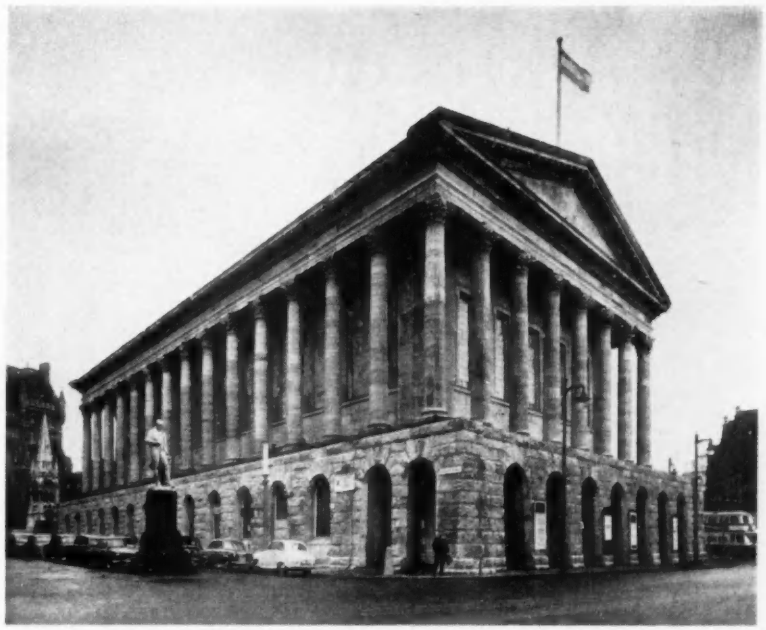
HAVE YOU VOTED YET? RIBA members are reminded that the voting papers for the election of Council for the session 1961-1962 must be returned by June 20. Last year only 3,916 members voted out of a possible 15,562, a smaller proportion than in any post-war year. The number of votes received by successful candidates ranged from 1,539 to 1,142, representing less than one-tenth of the electorate. This is hardly good enough at a time when many vital problems will face the next session's Council. It is therefore very much in a member's own interest to take his share of responsibility for choosing those who will represent him on Council.

A post-election analysis of envelopes in which voting papers were returned in 1960 showed that Fellows had the best voting record—37 per cent of Fellows voted, compared with 25 per cent of Associates and 15 per cent of Licentiates. Proportionately fewer members in Scotland and Wales voted than did members in England. A very rough analysis by age showed that Associates between 45 and 65 had a better voting record than those under 45. Apart from this broad trend, lack of interest in voting appeared to be spread fairly uniformly over all age groups.

### Dublin Library Competition

WITH THE WINNER, a highly commended and a commended, the Architectural Association comes well out of the Trinity College Library extension competition, the result of which was declared in Dublin yesterday (June 8). In all 218 entries were received from architects in 29 different countries—which is justification of the Board's decision to make the competition international in character.

Until the drawings are studied, it is not possible to make an assessment of the merits of the winning design, by Mr. Paul Koralek, who studied at the AA from 1951-56, and is at present working with Marcel Breuer & Associates in New York on plans for a new ski resort in the French Alps. The spotlight of attention will be on his design, however, for the Italian assessor, Professor Albini, while not opposing the decision of his four brother jurymen, abstained from voting for the entry placed first, his reason essentially is 'that the architecture, though of a high standard, does not seem to me to harmonise with the surroundings in which the new building is to be situated.' Professor Albini feels confident, however, that the author can revise it, bearing this problem in mind, for, as he generously adds 'he has shown a keen awareness of the many arduous problems which he has encountered and solved, brilliantly, in his design.' All of which adds interest to publication which will be in 'The Builder' next week.



BIRMINGHAM TOWN HALL, *a recent picture of the cleaned building. Proposals for internal modernising are given in a Note. The building was opened in 1834 to the designs of Hansom and Welch. Hansom was the founder and first Editor of 'The Builder' which he established 8 years later*

### Seal of Success

FAME COMES TO MEN in many forms, but the final accolade, for a Scotsman at least, is election to the Rectorship of a Scottish University. This distinction may be conferred on Sir Basil Spence who has been nominated for the rectorial election at St. Andrews University in November, when Lord Boothby's term of office comes to an end. The election, which rests in the hands of the student body, can be nerve-racking (comparable in fact to another ordeal which takes place annually on the first tee of the Old Course) but to anyone who has successfully chaired any recent annual general meeting of the RIBA it should be taken easily in the stride. We wish Sir Basil well in his campaign towards an honour which, so far as we know, would be unique for an architect to gain.

### Span Housing at Blackheath

DEPITE A RECOMMENDATION against it by his Inspector, the Minister of Housing and Local Government, Mr. Brooke, has decided to permit Span Developments to demolish a Victorian house at 44 Blackheath Park and to erect in its place a new scheme of houses and flats. The inquiry was held in February and there was much opposition from the Blackheath Society.

### A Guide to Wrest Park

THE GARDENS at Wrest Park, near Silsoe, Beds., now in the care of the Ministry of Works, contain important examples of varied styles of gardening current in England from c. 1700 to c. 1850, yet are visited by comparatively few people. The finest of these, the Great Garden, was laid out between 1706 and 1740, and 'Capability' Brown was responsible for serpentining the waters enclosing the gardens on three sides and opening up the edges of the garden.

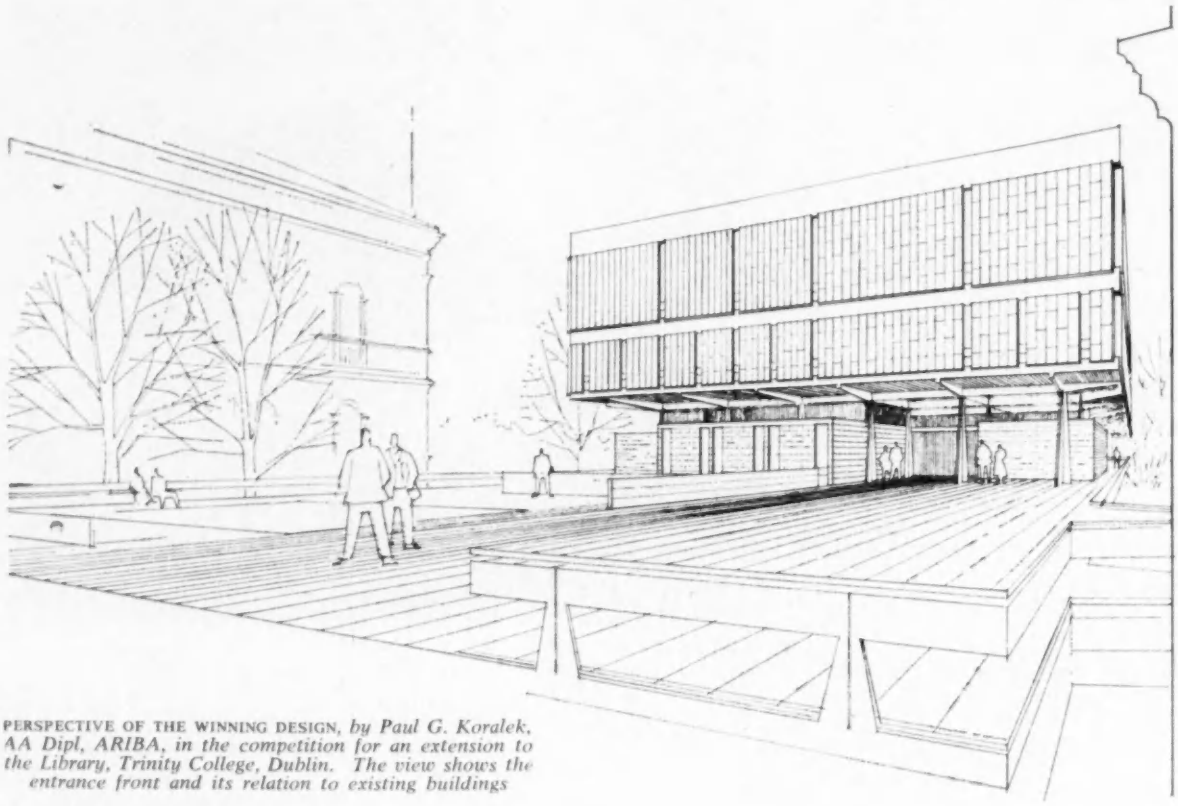
To help more people find their way to the gardens, which deserve to be much better known than they are, the Ministry has erected new signposting and has also issued an attractive little guide to the gardens. The house itself, known as the 'New House,' was designed by Clephane in 1834, and was built for the 2nd Earl de Grey, who was the first President of the RIBA. This is not open to the public and is at present occupied by the National Institute of Agricultural Engineering, but the gardens can be seen from 2 p.m. to dusk, April to mid-October, on Saturdays, Sundays and Bank Holidays only.

## *Poet's Corner*

IN A RECENT broadcast talk, Mr. Alistair Cooke suggested that if the traffic were to be kept moving London would have to become a system of one-way streets.

Oh, Gwynn and Adam, Nash and Wood,
You thought your plans were pretty good;
Those crescents, quadrants, streets and squares—
What are they now but traffic snares?
Quite pleasing to the eye, no doubt,
But hopeless as a roundabout.
Planning so utterly effete
Means trouble for the one-way street.
How vexing that you failed to gauge
The needs of this, the motor age.
Your layouts will need much improving
If we're to keep the traffic moving.

ANON.



PERSPECTIVE OF THE WINNING DESIGN, *by Paul G. Koralek, AA Dipl, ARIBA, in the competition for an extension to the Library, Trinity College, Dublin. The view shows the entrance front and its relation to existing buildings*

Competition Result

# Library Extension, Trinity College, Dublin

THE DESIGN of Paul G. Koralek, ARIBA, AA Dipl (Hons), has been given first place in the international competition for an extension to the Library of Trinity College, Dublin. The selection was made from a total entry of 218 entries from 29 different countries, of which 13 designs were eliminated for serious infringements of the competition conditions. Of the five members of the Jury of Award—the Earl of Rosse, Signor Franco Albini, Sir Hugh Casson, Mr. Raymond McGrath and Mr. R. T. Esterquest (replacing Mr. K. DeWitt Metcalf who was taken ill before the assessment)—Signor Albini abstained from voting for the entry placed first but did not oppose the Jury's decision. He has published his reservations.

The full award is:

1st (£1,500 premium): No. 123: PAUL G. KORALEK, AA DIPL (HONS), ARIBA, whose temporary address is 201 East 57th St., New York 22, USA;

2nd (£1,000 premium): No. 173: AL MANSFELD (associates D. Havkin and J. Polatsek), 5 Keller-st., Haifa, Israel;

3rd (£750 premium): No. 89: GENE J. FESTA, AIA, and WILLIAM H. GARDNER, AIA (associates John Mesick, Thomas Ovington, Lewis Zurlo), 1300 North Woodward, Birmingham, Michigan, USA.

*Highly commended:* No. 86, MICHAEL BRAWNE, M.ARCH, AA DIPL, ARIBA, 31 South Hill Park, London, NW3; and No. 117, HAROLD J. NICOLAIS, 860 Balboa-drive, Arcadia, Calif., USA.

*Commended:* No. 127, BARRIE DEWHURST, M.ARCH, ARIBA, AA DIPL (HONS), 8 Suncrest-close, Barton, Torquay, Devon; No. 164, S. F. SANCHEZ, A. C. RIBEIRO DAS NEVES and A. C. RIBEIRO, R.S. Tiago, 22, Lisbon; No. 179, HOWARD MASON, B.ARCH, ARIBA, PETER FALLER, DIPL.ING., and MALCOLM QUANTRILL, M.ARCH, 16 Telford-terrace, London, SW1; and No. 201, V. ERHAN, O. DEMIRASLAN, H. BABAN, and UGUR GUNDES, of Istikal Cadd, Santral Han No. 503, Beyoglu, Istanbul, Turkey.

The competition Registrar has been Mr. J. V. Luce, Fellow TCD, and the award was made public yesterday (June 8) in Dublin. The first three designs will be illustrated next week, together with a critique by Joseph P. Alcock, BArch.

### Jury's Report

The Jury, in their report, say of the winning design that it is 'consciously modern in style and construction, and the author shows enough taste and judgment to encourage confidence that, when built, the new Library will be a notable addition to the architecture of the College. . . . The architectural relationship to the older buildings is good, but 'the siting of the new building might be improved by moving it somewhat farther south so that the fine oblique vista of the old Library from College Park is preserved.' The report adds: 'All in all the Jury consider that the design best fulfils the requirements of the accommodation programme prescribed, that it can be built within the limits of cost stipulated, and that it meets the desires of the promoters "that the new building will represent the 20th century to posterity as characteristically as the present library represents the 18th century."'

Though not opposing the award of the first premium to No. 123, Professor Albini felt compelled to abstain from voting in its favour. 'Despite the qualities to be found in its favour,' he states in a note of reservation, 'the most important reservation that I feel it my duty to make concerns the architecture which, though of a high standard, does not seem to me to harmonise with the surroundings in which the new building is to be situated. . . . Without going into details, No. 123, and for that matter many of the others, does not appear to give an indication that the problem of inserting the new architecture within the present surroundings has been faced up to, or that the restraints and stimuli that would result from this insertion have been assessed so as to reach an architectural solution. This solution could have been unreservedly contemporary whilst at the same time, without making concessions to a "period" taste, it could have attempted that dovetailing with tradition which present-day architectural thought regards as one of its most immediate problems.'

# Keble Triangle II

## Oxford University's New Development

OXFORD has taken Science to its heart. Science at one time appeared to be taking over the University Parks but a site for scientific overflow was bought quietly twenty-five years ago. This piece of land is a natural extension of the Science Area. Resembling the island of Sicily in shape, it is bounded on the south by Keble-road, on the east by the Parks, and on the west by the Banbury-road curving gently north out of the great space of St. Giles'. Keble chapel towers over the site to the south; Ruskin's Science Museum, St. Giles' Church, two seventeenth century houses, and a great deal of Lanchester and Lodge all are hard by and, in a year or two, St. Anne's over the way will dance a beer-barrel polka down the Banbury-road.

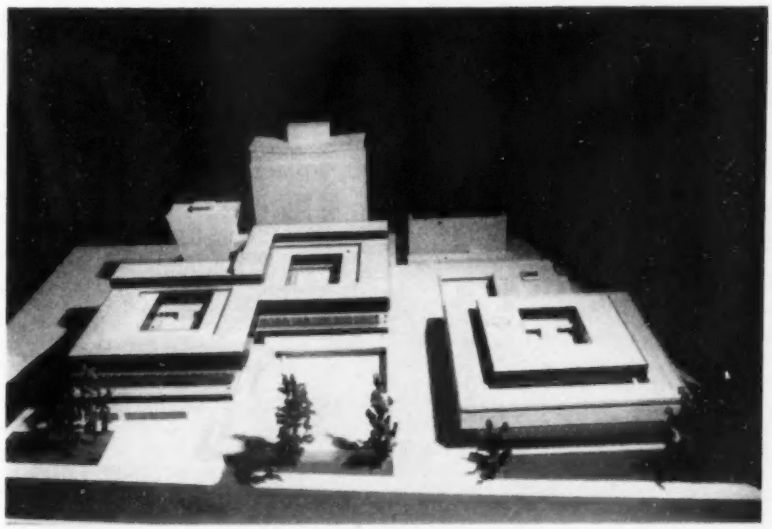
This is Mr. Philip Dowson's site, the Keble Triangle. Not an empty canvas upon which to set to work but a rich patch-work quilt, buffer between the historic city and North Oxford and a difficult setting for what will be the largest university physics department in the country. But this is not, by any means, all. Oxford, by long established tradition, disappoints quite as many architects as it appoints. Professor Basil Ward prepared a plan for the Keble Triangle some six years ago. One of his buildings, the Department of Metallurgy, an elegant essay, has been in use for two years; another, a tall but stocky tower for the Department of Engineering, is now rising out of a very large hole in the ground.

### A Changed Brief

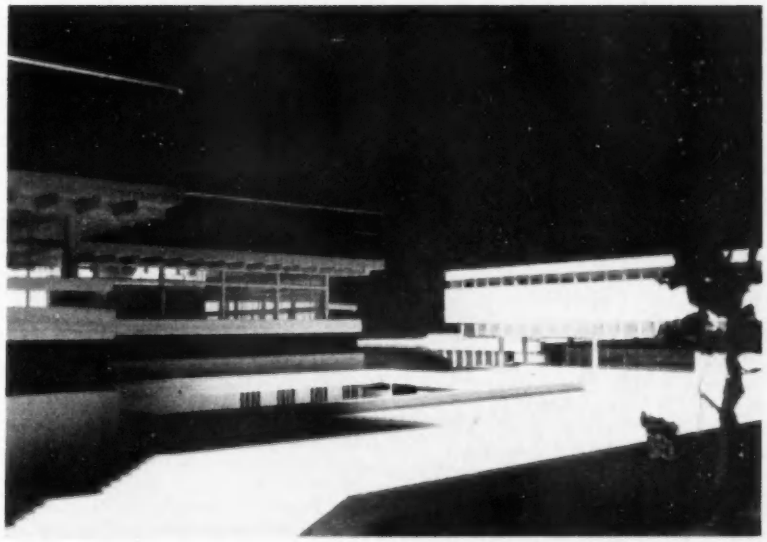
The brief has changed. Oxford is to become the major centre for university-based nuclear research. DSIR has given its blessing and a million or two. The physicists have won but there is still to be a vast general lecture theatre on the site that once was thought of as a university theatre as well, but the University now owns the Playhouse. The theatre party has given up the fight in the North. Mr. Dowson appears to have been given a more clearly defined brief but a formidable one. He has had to conjure with two large nuclear energy plants, one horizontal and one vertical, a lecture theatre for 800, flexible spaces for research, inflexible spaces for straight teaching, dozens of small offices, 160 motor cars and hundreds of bicycles. He was not to bother with the northern tip of the site: the future of that will occupy senior common rooms for some time to come.

### A Collegiate Quality

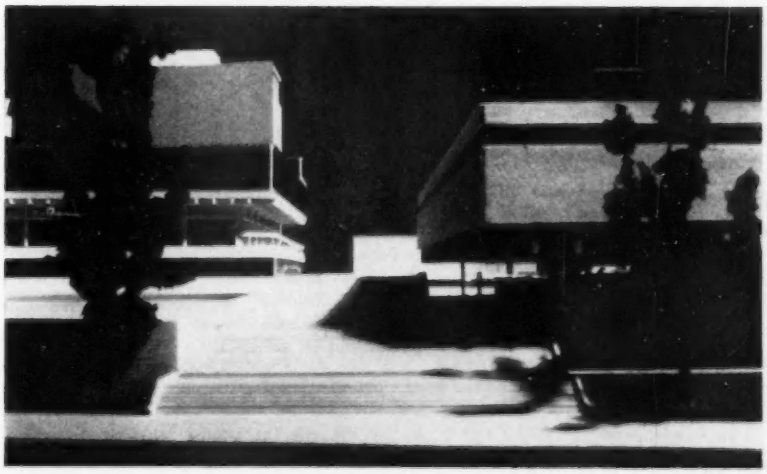
Professor Ward relegated all vehicular movement within the site to basement level. That has been Mr. Dowson's point of departure: one nuclear generator, car parks, bicycles and services are below a plinth. He has sought to give a collegiate quality to a Faculty and he has been remarkably successful in creating



*Above, nuclear research laboratories and vertical electrostatic generator, with physics teaching and lecture hall on the right*



*Above, research laboratories left, physics teaching right, and entrance to lecture hall from main concourse. Below, main access to precinct with lecture hall on right*



bold, well-integrated spaces between his buildings above the plinth. These spaces are approached by flights of steps designed to heighten definition: they do this more than well. Courts within the three buildings are, by contrast, sharply rectangular. The enormous tower of Butterfield's cathedral-like chapel of Keble and the bulk of the new Engineering tower have not been ignored: they are pressed into very active service for, with the exception of the strong, downward-tapering form of his freestanding reactor, Mr. Dowson has kept his buildings long, low and horizontal and has thus quickened the entire complex. Even the reactor is made subservient to the Ward tower. Horizontals are reinforced by fairly wholesale cantilevering. There appears to be a deliberate exaggeration of the weight of the cantilevered concrete beams but they are undoubtedly vital ingredients; they maintain a steady, unmistakable rhythm, a ground base which is echoed directly in vertical glazing in grey glass, the architectural equivalent of Crooke's lenses or, in the block nearest to Keble, in clerestory-lights set above long, mobile planes of concrete curranted with crushed Portland stone.

### An Air of the Inevitable

Out of all this arises an air of the inevitable, of great vitality and of calm: energy and repose. University buildings of the past had that. Somehow, they seldom get it today. Those beams are heavy; in the excessive height and blankness of the wall to Parks-road, near Metallurgy, there is a falling away in quality, a slurring, as also in the treatment of the top of the figure-of-eight Nuclear block. But these are minor blemishes. Planning is smooth in detail, it shows great technical skill, and, in the words of the Vice-Chancellor, the cricket pitch in the Parks is visible from many rooms.

This is a magnificent contribution to the University of Oxford.

REGINALD CAVE.

*'Tis a foine Library, but wouldn't it be rare with Jackie as librarian?'*

# Letters to the Editor

## Private Help or Official Expansion?; New Thinking at Harlow; Training for Site Management; Recruitment of Painting-apprentices

SIR,—It is usual for important articles in 'The Builder' to give a fair survey of situations as they exist, but I fear that the comments made in your leading article on the above subject in your issue of May 26, deviate considerably from the facts as known to me.

Generally, an official architect's department has to be self-supporting and bear all its legitimate costs. The costs charged to a large number of capital projects are subject to audit, and, in my experience, the district auditor is just as concerned that all professional fees, whether departmental or private, are fairly charged, as he is to ensure that all other charges are correctly made. I sometimes wonder why the illusion exists that local authorities would wish, even if they could, to omit or allocate incorrectly official costs. My Department bears all its legitimate costs and charges them in the correct proportion to the work for which it is responsible. Some of these costs—for instance, rent—can be greatly in excess of those which private architects would wish to bear, due to factors beyond the Department's control.

My assessment of the situation is that the shortage of architects in local authority offices is due to the general shortage of architects throughout the whole country. I agree that private architects have more flexibility, not only in dealing with their staff but in dealing with the volume of work within their own organisation. An official architect's department is faced with a programme of work to be done irrespective of the amount of staff available or the possibility of obtaining further staff. A private architect can choose to undertake only those commissions which are within the scope of his organisation.

I think it is invidious to begin to compare efficiencies in private offices and local authority offices. I would say that there have been no economies which have been introduced into good private offices which have not also been adopted in good local authority offices. I do not wish to expand on this because I do not subscribe to the view that we must be continually making comparisons one with another, for which anyway there is little proof. All I am urging is that, in my opinion, the time has come when this line of argument should cease.

Because it is the usual practice for official architects' departments to charge the actual costs of their services to projects and private architects, in the main, charge on a percentage basis, irrespective of their actual costs, it is always difficult to make comparisons, but there is no doubt that, on the average, the work of official architects' departments is done at a cost which represents a saving on RIBA scales.

Official architects' departments and private architects are complementary and not in opposition and this should be the normal attitude. A large bulk of work has to be done in official architects' departments, and these departments are geared to accomplish this. The private architect is also anxious to, and should be given the opportunity to, make his contribution to the community. In association with official architects' departments, he can bring variety to large programmes of work involving the creation of dwellings, schools, and ancillary buildings, and he can alleviate considerable pressure in times of stress. Elizabeth Layton's recent book on 'Building by Local Authorities' (initiated by the Royal Institute of Public Administration) gives an extremely fair and balanced comment on this subject and states that authorities should consider engaging private architects as part of their normal policy as is already done by progressive authorities.

I would urge that we recognise the immense advantages which accrue from good collaboration between all sections of the architectural profession and do everything possible to foster this spirit throughout all branches.

A. G. SHEPPARD FIDLER [MA, B.ARCH, FRIBA, AMTPI],
City Architect, Birmingham,
Civic Centre, Birmingham.

### New Thinking at Harlow

SIR,—The winning scheme at Harlow, commented on in 'The Builder' of May 19, is, as the reviewer states, interesting both in pattern and in composition, but does it not stray a little too far from those standards which the normal Englishman considers desirable? He is, after all, more concerned with outlook than layout.

To approach one's home through a long, dark and draughty tunnel is 'different,' but is it desirable and, having reached home, would one always be content with the limited view of a paved court about twice the size of a slum back yard? Furthermore, since the sun will never reach the windows of many of the houses, will life be the rich rewarding experience it should be today, and will the little wife be content with complete seclusion? There is, of course, no reason why the milkman and the undertaker should not carry their wares for 100 yards or even more, but what about the fire brigade?

While admitting the need for fresh thinking, must we assume such a striking change in the average person's outlook, or is it that modern people are so fond of living in the car that they are indifferent to life at home?

C. S. WHATMORE [ARIBA],
Tunbridge Wells, Kent.

### Training for Site Management

SIR,—Your correspondent, Mr. W. E. Tarbotton, implies ('The Builder' of June 2) that teamwork is the answer to our

problems on a building site. We cannot, of course, dispute that it is the essence of good site performance, but it is a product of good management, not a qualification. No team can give good results if it does not have competent leadership.

A good manager knows his own limitations. He doesn't think he knows it all merely because he has authority. He delegates authority as well as responsibility to his subordinates. He wants them to be competent, not merely 'yes-men.' He gives them a chance to make decisions in their own departments because his success or failure depends on what they do.

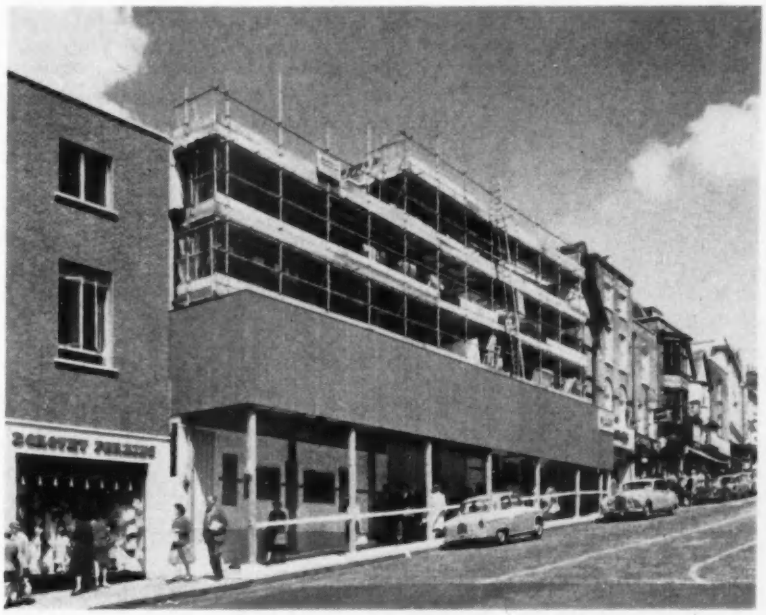
Mr. Tarbotton also asks '. . . where is the complexity of buildings today that was not apparent 20, 25, 50 years ago?' Not in construction, Mr. Tarbotton, but in the labour force. Modern foremanship has, of necessity, become more and more concerned with methods of organisation. In the past the greatest attention was paid to getting the most out of materials and labour. The one qualification above all was that a foreman should be able to drive his men. He got the job out at a price, not so much by science but by ruling all with a rod of iron. He could pick and choose his staff, and hire and fire them at will. Those autocratic methods are out of tune today. The era of the one dominant individual is now history. Advance in public education has given industry a better type of workman, and the need is a new method of working them.

Similarly, our future foremen get off to a better start and they are not tied down to a five-year craft apprenticeship. They are groomed for management at a very early age and are given the right encouragement and training to fit them as our future leaders. My Association recognises this fact. It also feels that there is a danger in sticking slavishly to one training procedure. It is anxious to maintain an opening for the man who is 'fired with ambition' much later in life.

The mistake we are all making is to think only of the very large jobs when the main bulk of building work is done in much smaller packages. Graduates and students would have a tough time on some of these contracts, and I can imagine the fun a militant trade union steward could have with them if he set his mind to it. All that is required is a practical man who will use the tools of modern management, but he must learn what makes people do the things they do. He must know how to make the best of their good qualities. He may know his trade thoroughly and be a good manager, but unless he knows and likes people, and by his conduct inspires confidence, respect and mutual understanding, all his job knowledge will be of little use.

Mr. Tarbotton says we have fallen into the same hole as Mr. Peter Trench. Well, we are happy to be in such good company, and though we may not smell any sweeter under our new title, our aim in forming the Institute of Building Site Management is to work for that respect, confidence and mutual understanding on the site. We have chosen this title as an umbrella under which we can gather all who help us in the management of a building site.

F. H. GREGORY,
60 Kerridge Court,
Ball's Pond-road, N1.



*Scaffolding and gantry, Guildford High-street (see Letter)*

### Recruitment of Painter-apprentices

SIR,—It was with considerable interest that I read in 'The Builder' of May 12 the reference to the recruitment of painter-apprentices in the President's address to the annual general meeting of the Federation of Painting Contractors.

I was gratified to see that a representative of the Employers recognised that unskilled labour in other industries were getting a better return for their services than the skilled painter. Mr. Greenough went on to say that the ratio of painter-apprentices was the lowest of any trade in the building industry and that the industry had some responsibility for that state of affairs. By 'the industry' I would expect that he means the whole of the building trade employers, including the painter employers, and I would wholeheartedly agree with him on that—in fact I would substitute 'most' for 'some.'

The difficulties lie in the fact that there are so many employers who are not prepared to offer apprenticeship under the terms of the NJC for the building industry standard apprenticeship deed. Is it to be wondered that boys will not come into the trade when the employers are not prepared properly to apprentice them? Why do we have to fight so often to get the painting employer to allow his apprentices to attend the day-release classes? These are the kind of things which must discourage any lad from desiring to become a skilled painter.

The remainder of the building trade employers also play their part in discouraging apprenticeship to the trade by their narrow-minded attitude to their colleagues in the painting industry by consistently refusing to agree to the latter being represented on the NJC, which prevents painting employers from being parties to the Building Trade Apprenticeship Agreement, which causes great difficulty to us in seeking enforcement in the painting trade. When will the building employers realise that the painting employers are part of the building industry and should be parties to the decisions of the joint council? One can only assume that it is purely sectional interest rather than the good of the industry and is a product of the system we work under.

I must also heartily agree with the speaker's comments regarding the pay-roll tax. This Society has already, by conference resolution, condemned the whole of the Budget. Apparently the tax is as distasteful to the employers as it is to the operatives, but then the employers were anxious to see the return of a Tory Government. They will have to lie on the bed they have made along with the rest of us who had other ideas.

A. G. AUSTIN, General Secretary,
National Society of Painters,
4 Camp-street, Salford, Lancs.

### A Well-designed Gantry

SIR,—In Guildford's picturesque High Street there is to be seen on the site of the new Marks and Spencer store a classic example of how well a gantry and scaffolding can be designed and erected. It is the work of Bovis Ltd.

For those of your readers who have occasion to pass through the town, I would commend it to their notice.

It seems almost a pity that one day soon it will all have to come down!

F. H. HIGHLETT,
Highlett & Swayne, Ltd.,
Dapdune House, Guildford.

# Housing Redevelopment, South Kilburn

ARTHUR M. FOYLE, BA ARCH, FRIBA, AMTPI, AMI STRUCT E, architect
TAYLOR & SMITH, F/ARICS, quantity surveyors
WILLESDEN CORPORATION DIRECT BUILDING SECTION, builders

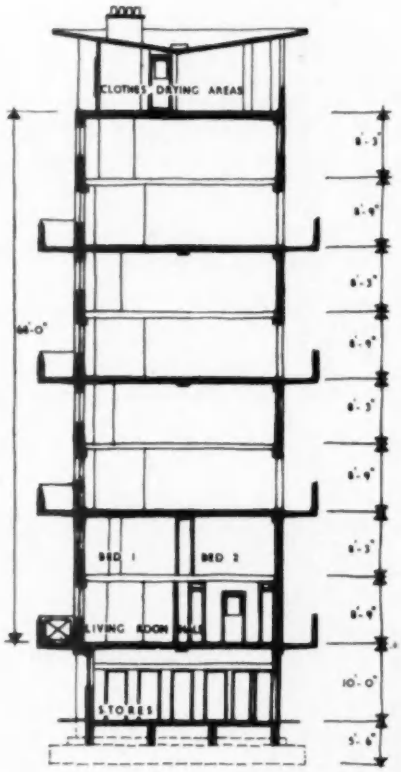
*south elevation of blocks F and G from Chichester-road*

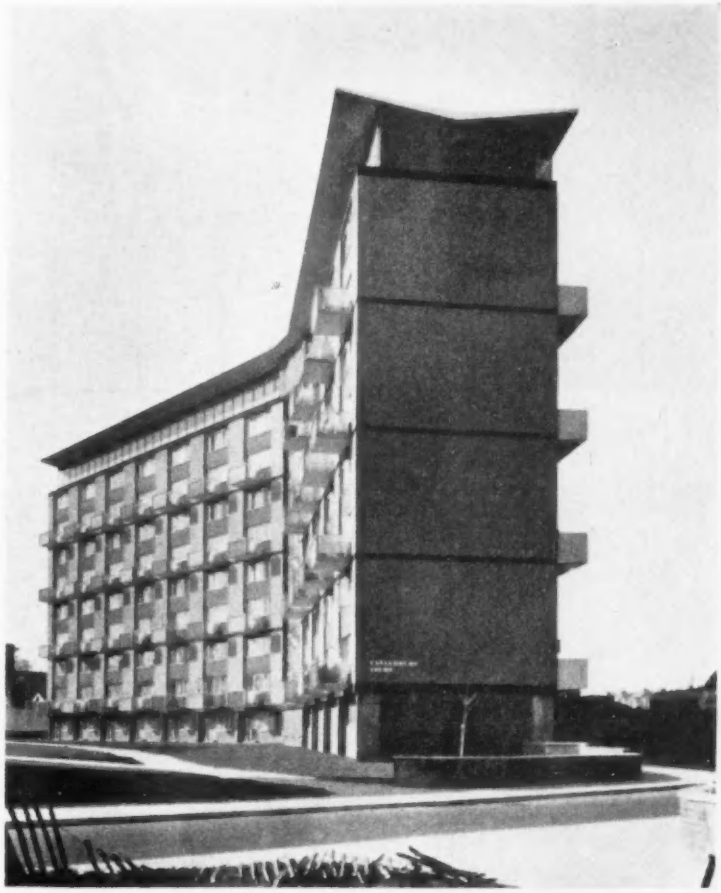
THESE TWO LINKED BLOCKS are part of a comprehensive slum clearance and redevelopment scheme, covering about 61 acres in the Borough of Willesden, upon which work commenced in 1949-1950. The eventual target population for the scheme is 4,000, with an overspill of about 2,000.

The site is a triangular one, made available by demolishing obsolete houses and shops in Canterbury-road and Chichester-road while retaining the public house at their intersection.

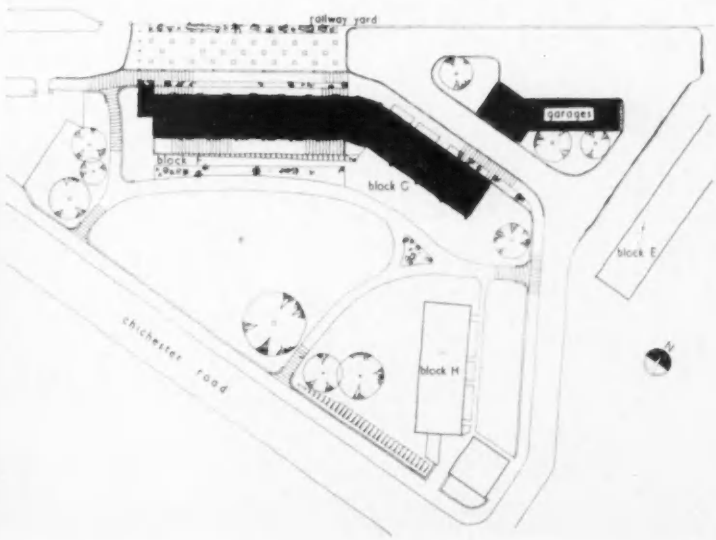
The accommodation in block F consists of 7 bed-sitting room flats for old persons on the ground floor with a terrace facing south, and 28 two-bedroom maisonettes over. Block G contains a laundry, stores and cycle shed on the ground floor with 16 three-bedroom maisonettes over. The main entrance is at the junction of the two blocks and leads from a pedestrian way formed by sealing off Canterbury-road. There are two lifts, one for passengers and one for goods, adjacent to the main staircase. Access to the maisonettes is by balconies on the north side with an escape staircase at the west end of block F. An important feature is the series of clothes drying areas provided under cover at roof level along the full length of both blocks. Seven garages, a trailer shed and an electricity transformer chamber, accessible by means of a service road, are sited behind block G.

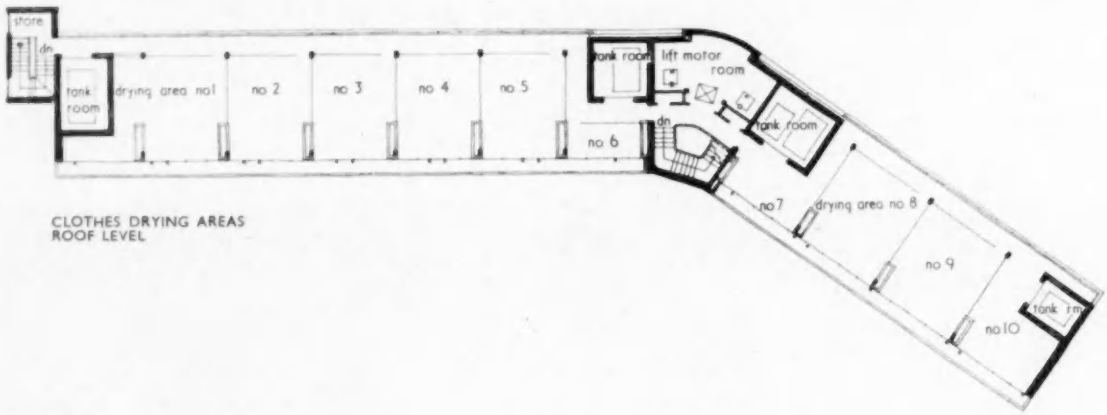
Construction consists of reinforced concrete cross walls 7in. thick, forming the party walls between each maisonette. Party floors are of reinforced concrete spanning from front to rear over a central beam which is used to support a 4½in. brick spine wall. Intermediate floors are of timber joists bearing at one end on the spine wall and at the other on ring beams on the line of the external walls. At the junction of block F and the lift hall the cross walls are doubled up to form an expansion joint running the full height of the building. External walls are of cavity construction with yellow and purple Uxbridge flint facings. Precast exposed aggregate panels have been used as permanent shuttering to the exposed ends of cross walls at ground floor level. Balcony fronts are of fluted asbestos finished with chlorinated rubber paint. The delta form roof over the clothes drying areas is of concrete. The total cost of the contract, including the layout of the site, was approximately £170,000.



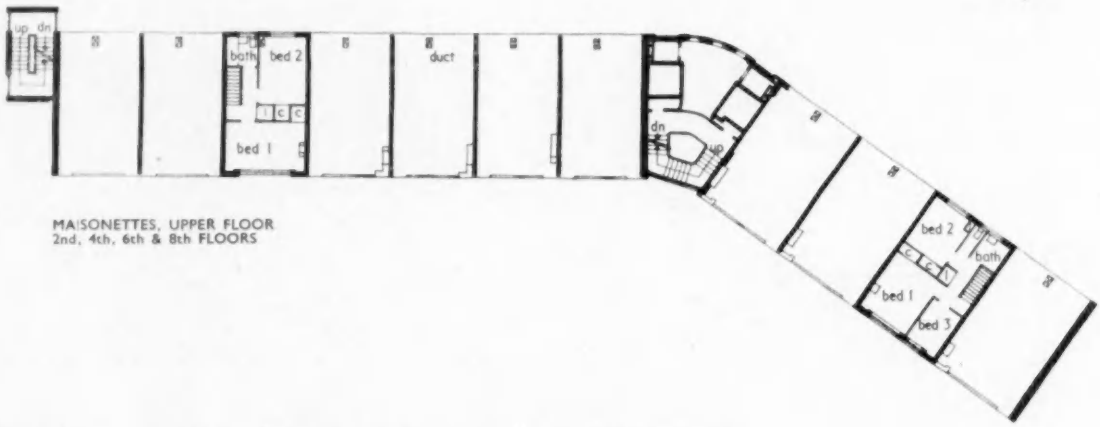



*Right, east elevation showing the delta roof form. Below, staircase tower on west elevation. Above, cross section of block G*

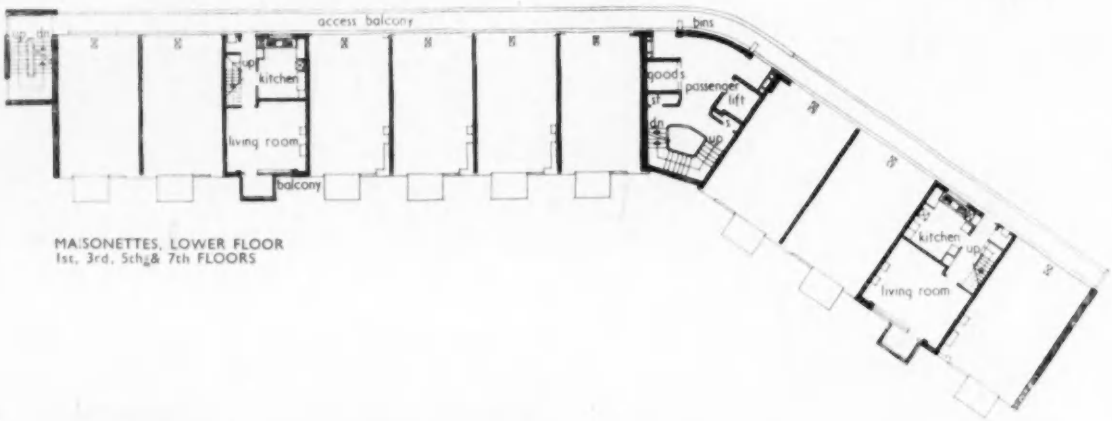




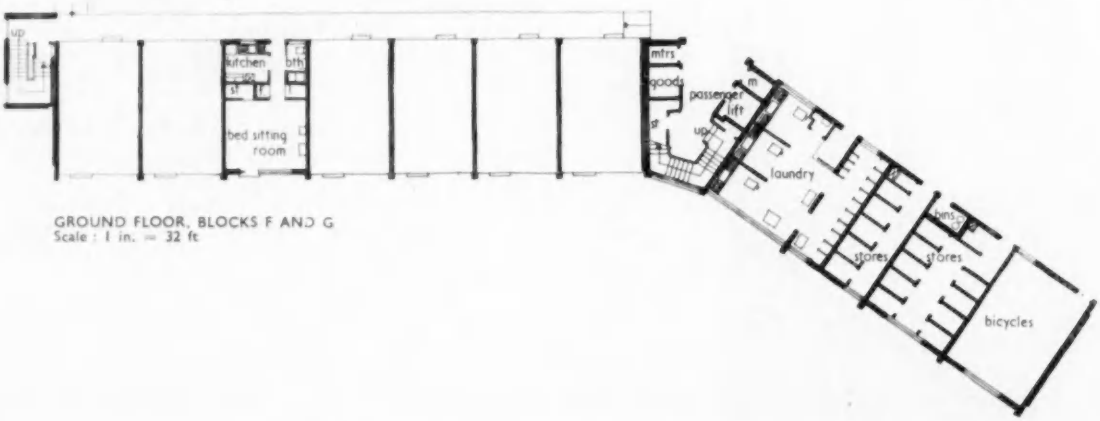

CLOTHES DRYING AREAS
ROOF LEVEL




MAISONETTES, UPPER FLOOR
2nd, 4th, 6th & 8th FLOORS




MAISONETTES, LOWER FLOOR
1st, 3rd, 5th& 7th FLOORS

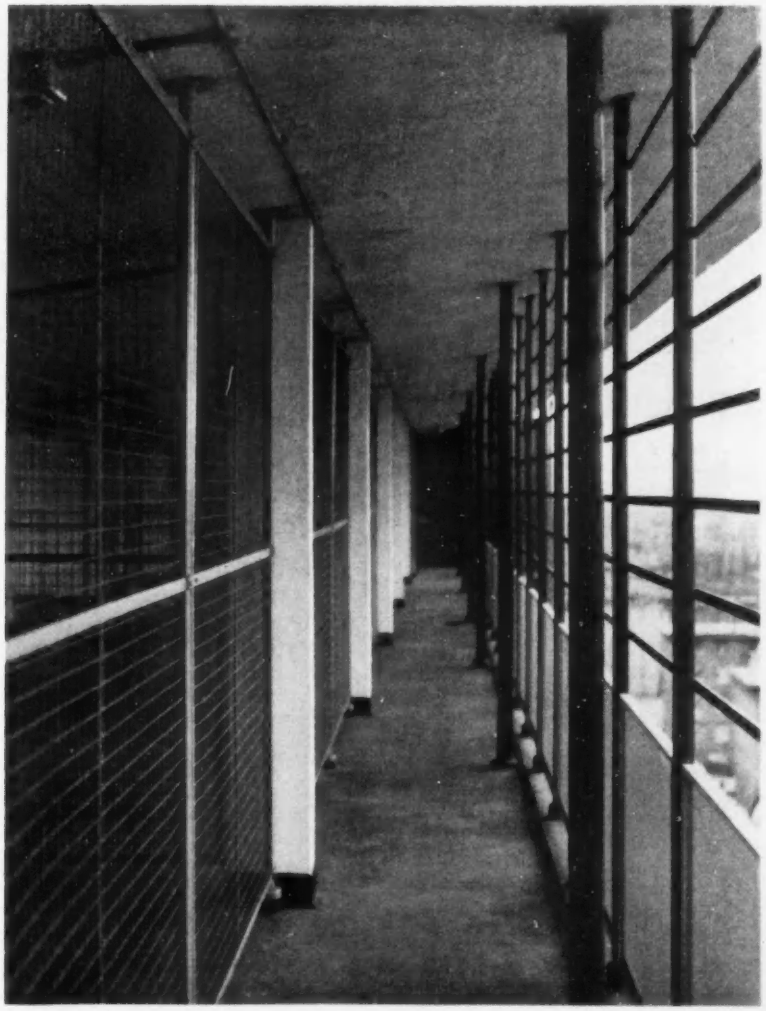



GROUND FLOOR, BLOCKS F AND G
Scale : 1 in. = 32 ft

## Housing Redevelopment South Kilburn

**sub-contractors & suppliers:**

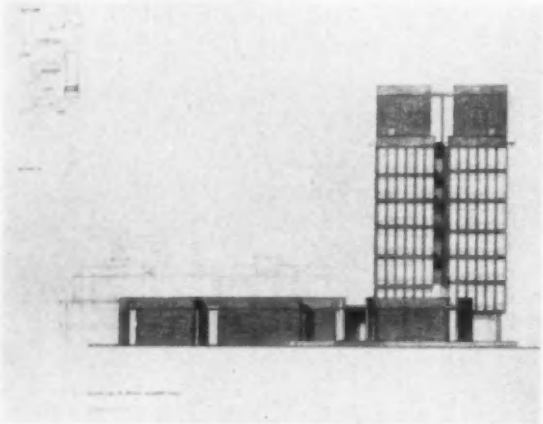
*r.c. frame:* Phillips Structures Ltd.; *metal windows:* Henry Hope & Sons Ltd.; *lifts:* Express Lift Co.; *prefabricated plumbing:* Econa Modern Products Ltd.; *asphalt:* Faldo Asphalte Co.; *exposed aggregate facings:* Kendell's Stone & Paving Co. Ltd.; *chimney stacks:* True Flue Ltd.; *balustrading & drying area screens:* H. & C. Davis & Co. Ltd.; *kitchen fitments:* Jayanbee Joinery Ltd.; *ironmongery:* W. N. Froy & Sons; *wood wool slabs:* Uniton Ltd.; *bricks:* Broad & Co. Ltd.; *fluted asbestos:* Dalton Ballard & Co. Ltd.; *lightning conductor:* J. W. Gray & Son Ltd.; *lettering:* The Lettering Centre; *roof lights:* Lenscrete Ltd.; *sanitary fittings:* Standard Range & Foundry Co. Ltd.; *washing machines:* Electrolux Ltd.; *fuel hoppers:* B. Finch & Co. Ltd.

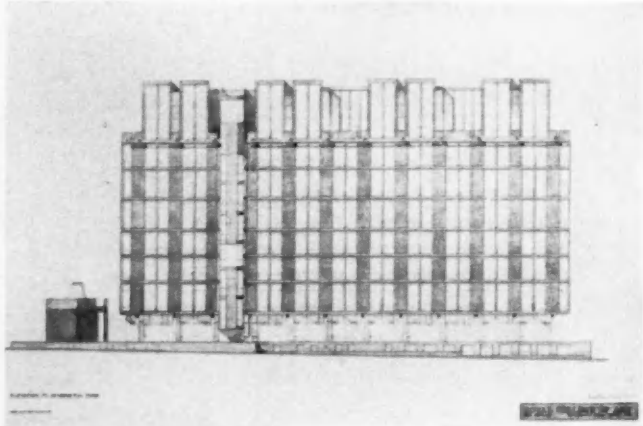


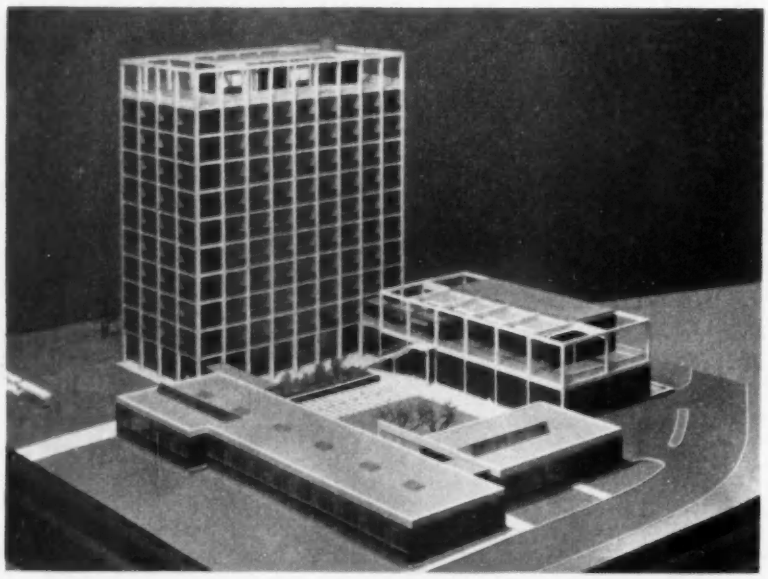
*Top, upstand beams on the delta-form roof over the clothes drying areas. Above, main staircase well looking up to roof light. Right, rear access way to clothes drying areas. The drying pens have wire mesh screens with sprayed paint finish. Metal screens to the balcony have a zinc chromate primer and gloss black paint finish. Safety panels are of Georgian wired cast glass, both at the front and rear of the building*

## R A Exhibition

## School Buildings



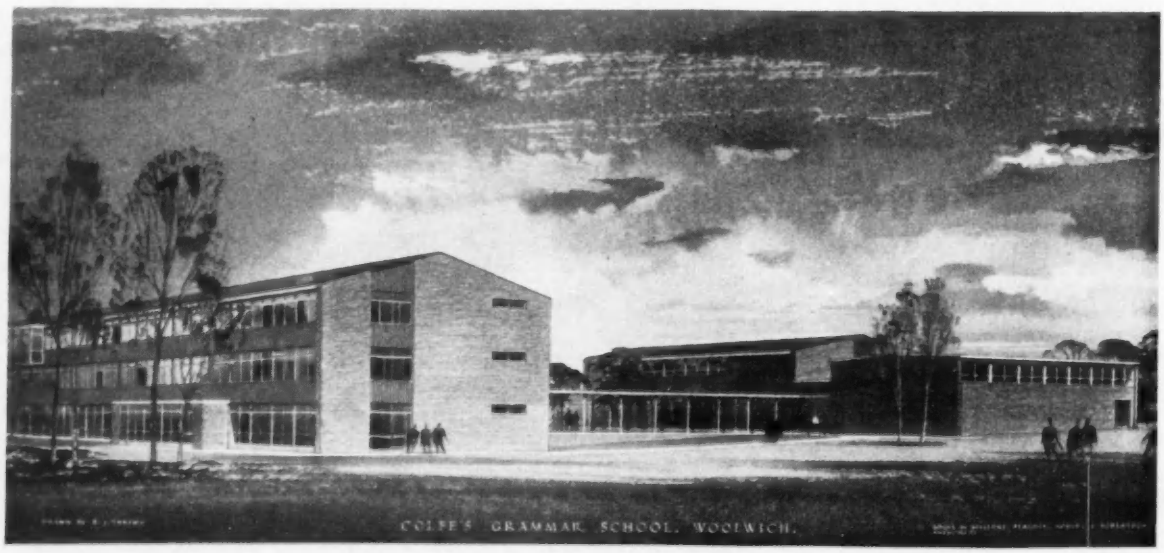




Above, Royal College of Art, New Premises. H. T. CADBURY-BROWN. Associated architects: SIR HUGH CASSON & R. Y. GOODDEN

Left, University College of Swansea: Men's Hall of Residence No. 1. SIR PERCY THOMAS & SON

Below, Colfe's Grammar School, Woolwich. LOUIS DE SOISSONS, RA, PEACOCK, HODGES & ROBERTSON. Drawn by E. J. Thring



# Public Rooms On The S.S. Caesarea

F. F. C. CURTIS, DR ING, ARIBA, architect, British Transport Commission
R. L. MOORCROFT, ARIBA, principal assistant architect
TROLLOPE & SONS (LONDON) LTD., contractors

*s.s. 'Caesarea' in service on the Weymouth to Channel Isles run*

S.S. CAESAREA, built by J. Samuel White & Co. Ltd., Cowes, IoW, is now in service on the Weymouth to Channel Isles run, and in the season carries large numbers of holiday makers. Maximum comfort was required in the seating arrangements for all passengers, but space was limited due to restrictions on the size of the ship imposed by operating in the Channel Isles' ports.

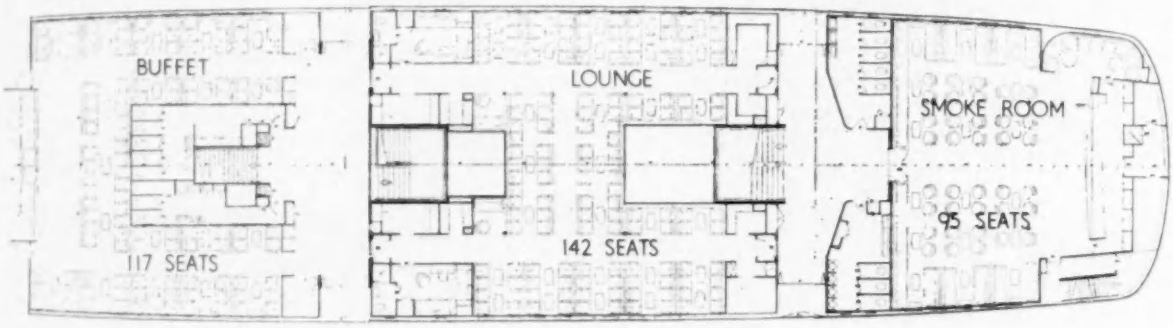
The design problem concerning the public rooms, cabins, and main circulation areas, was to create an illusion of being on a larger vessel than is the fact, by adopting the following measures: continuous ceiling treatment and patterns of ceiling equipment in all public rooms and hallways; continuous floor colouring; standard detailing throughout; restriction of colour range; and providing the maximum circulation areas possible.

Walls are panelled with timber veneers on a fire-resistant backing: teak in circulation areas, promenade deck buffet and main deck cafeteria; cedar of Lebanon in midship lounges and lower deck dormitories, Andaman Padauk in the smoke room bar and the forward lounge, and English yew in the restaurant. Panel fixings are by raised head screws which form a definite pattern. Rubber buffer strips prevent rubbing while the ship is in motion, and panels are easily removable for maintenance. The timber is treated with a non-flame spreading finish. Ceilings are fire-resistant and sound absorbing, using glass wool and asbestos ship board painted white. Flooring is in two shades of grey 'granite' pattern linoleum, and carpeting in cabins.

The design of the loose chairs was carried out by the architect in collaboration with Aidron Ducksworth, Des. RCA, and Russell Furnishings Ltd.

Fibreglass is used for the seat bowls of all loose seats, mounted on nylon sheathed metal rod legs fitted with rubber inset levellers. Upholstery is of hide. Fixed seating was designed in collaboration with Dr. W. F. Floyd, consultant physiologist.

The efforts in ship design by the Danish architect Kay Korbing, are acknowledged in the development of his work seen in the dining room chairs and the large recessed light fittings. Assistant architects: H. N. Mason, ARIBA, AMTPI; P. D. Hume, ARIBA; R. T. Doyle, ARIBA.




PROMENADE DECK

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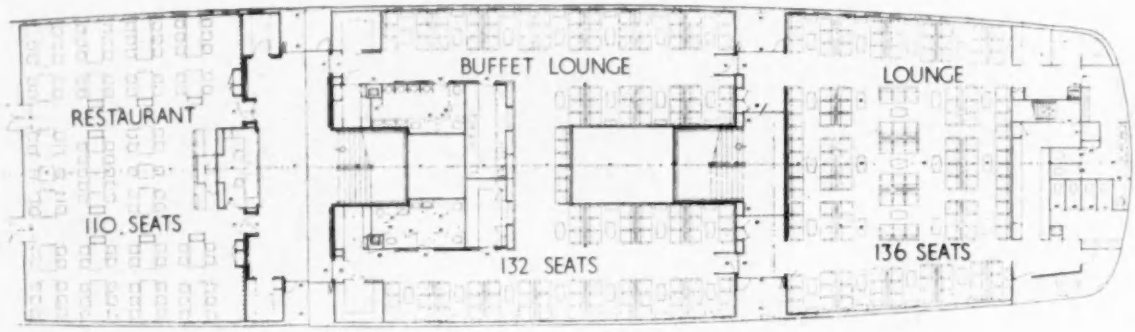
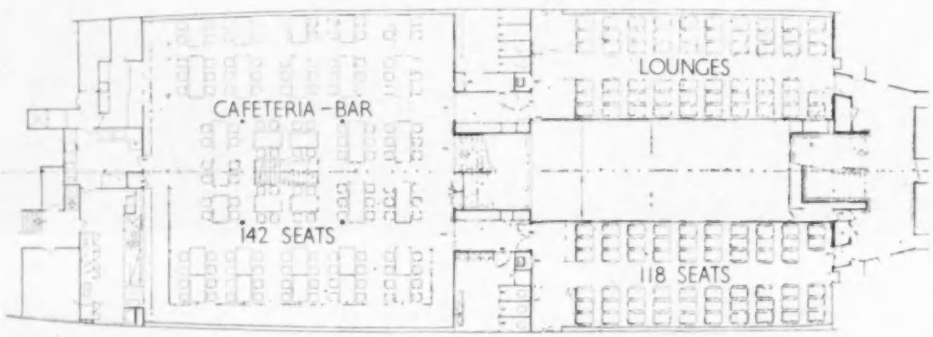
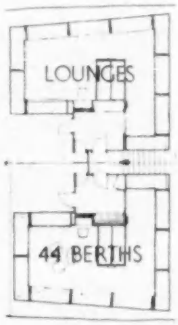



UPPER DECK



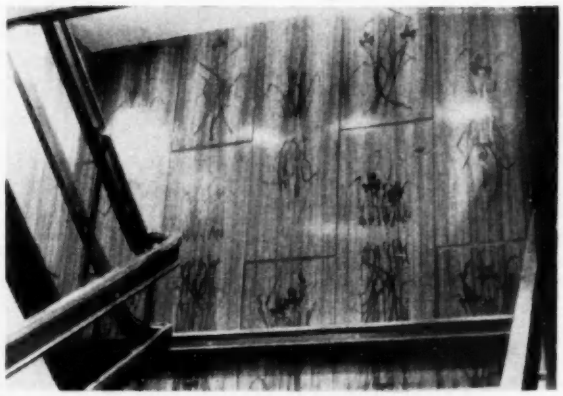

MAIN DECK




LOWER DECK

**sub-contractors & suppliers:**

*Curtains and loose chairs:* Russell Furnishings Ltd.; *carpets:* S. J. Stockwell & Co. Ltd.; *linoleum & canvas runners:* Rowan & Bowden Ltd., Michael Nairn & Co. Ltd.; *light fittings & illuminated signs:* Falk Stadelmann & Co. Ltd.; *clocks:* Gent & Co. Ltd.; *roller shutters:* Haskins (E. Pollard & Co. Ltd); *plastics:* Bakelite Ltd.; *Non-Flam timber finishes:* Cellon Ltd.; *ironmongery, notices & lettering:* N. F. Ramsay & Co. Ltd.; *hide:* The Bridge of Weir Leather Co. Ltd., Connolly Bros. (Curriers) Ltd.; *fire resisting walls:* Marinite Ltd.; *fire resisting ceilings:* Solastos Ltd.; *domestic refrigerators, ice cream conservators, sandwich & mineral display cabinets:* Lightfoot Refrigeration Co. Ltd.; *beer cooling plant & cabinets:* J. & E. Hall Ltd.; *beverage equipment, sinks & drainers, etc., plate & saucer racks:* W. M. Still & Sons Ltd.; *optics & spirit drainers:* Gaskell & Chambers Ltd.; *stainless steel metalwork:* G. Johnson Bros. Ltd.



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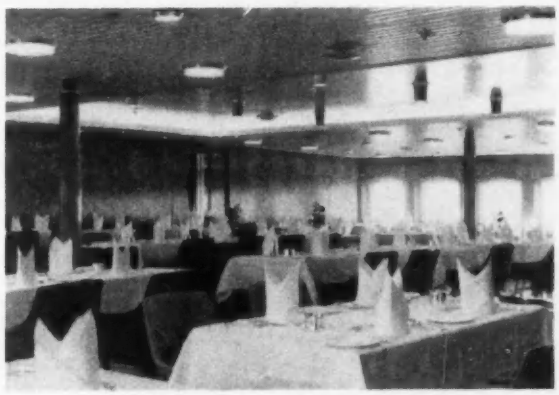

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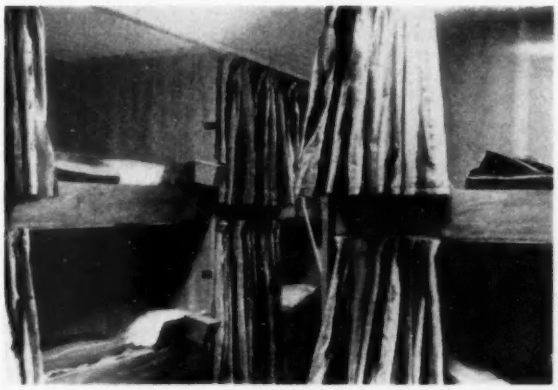

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*1. promenade deck lounge; 2. promenade deck smoke room; 3. upper deck buffet lounge; 4. upper deck restaurant; 5. main deck cafeteria; 6. main deck lounge; 7. lower deck saloon; facing page: forward staircase, paintings on the timber panelling of iris motif by Clarence Wilson*

**Public Rooms on the S.S. Caesarea**

# More Everyday Things

BY ARTHUR KENYON, CBE, FRIBA

## 45. Notice Boards

DO YOU HAVE A NOTICE BOARD in your office, and if so, what do you put on it? I had a letter from an eminent colleague the other day, the head of a large private practice, thanking me for a letter of congratulation I had sent to him and telling me that it had been put on the drawing office notice board. This set me wondering. Such notice boards as we boast in our own office never seem to offer any more entertaining reading than announcements of RIBA meetings or exhibitions at the Building Centre. The possibilities are obviously not being exploited.

Most of us have mixed recollections of Army notice boards; for me it was the place where I learned whether I must grow a moustache or shave it off. At least there was a personal note about army notices which could evoke strong feelings. The only time I recollect evoking strong feelings from any notice board of my own was some years ago when I had a notice put up for the guidance of the staff about Christmas holidays. This was much resented, for everyone had made their individual arrangements which were quite irrevocable and the official arrangements which I proposed were regarded as an unwarranted intrusion into their private lives.

I find myself irresistibly drawn to notice boards wherever I see them. They usually make dull and often dusty reading, but nothing seems to cure me of the habit. The Army casts its shadow long and dark and I still touch my upper lip nervously as I scan the board for orders.

But the office notice board belongs to another era. I quite warm to the idea of what we still might do with it. A list of the staff, with a personal note on each, in the manner of shilling theatre pro-

grammes might top the bill. Such details as whether sugar is taken in tea and coffee, and whether it is liked strong or weak, would be an invaluable aid to good staff relations. A note too on the hours of work preferred would be of help: some like to work from 9 till 5, and some from 10 till 6; while others do not feel equal to either of these arrangements but are quite willing to join in for a little in the middle of the day. Holidays must, I think, come into it, whatever care it may require in meeting individual domestic circumstances. I sometimes think that as there are only three months out of the twelve which are really suitable for holidays, it would perhaps be best to close down altogether for this period (excepting partners, of course), and trust that this would meet everyone's needs agreeably.

We must, of course, have the less personal section of the board too. This would include a chart showing jobs and those working on them, with a progress graph for each, carefully placed, as in hospitals, where the patient cannot see it. The RIBA meetings and other professional occasions should have their notices displayed—but perhaps a little grading in the manner of U and X would be advisable here.

Obviously much more thought will have to be given to the design of notice boards. No longer will any piece of board serve; size and shape are of first importance. But perhaps the quantity surveyor already has his BS number for it.

SKI-JUMP, WEMBLEY. *Last week's International Ski Jumping at Wembley Stadium was made possible by the use of 'Self-Lock' scaffolding and by split-second planning by Mills Scaffold Co., who designed and erected the jump. Time was the essence of the contract because of other sporting events at Wembley. On May 3 work was started on the 150-ft. tower and that part of the structure as far as the jumping platform. The remaining section (200 ft. in length) could not be built until after the dog meeting on the night of May 29, and all had to be ready for rehearsals on the afternoon of May 31. This involved 80 scaffolders working day and night in shifts.*

# 'Aluminium All Round'

*Some Recent Applications*

THIS EXHIBITION, held at the Building Centre, London, recently, by Luxaflex Ltd. showed some established and recently - developed applications of aluminium for venetian blinds, awnings, sun-louvres and building components, writes BASIL MARRIOTT. Naturally this is frankly a selling exhibition, and (equally frankly) one remained a little unsold on certain aspects of the appearance design.

For blind-slats (which traditionally can be made of several materials if properly supported by the reticulation of tapes which, I was told, are of mediaeval Chinese origin!) light metal suitably protected from weather and electrolytic action is obviously a valid synthetic. But I felt less happy about a vertical build-up of interlocking channels for fixed awnings, or canopies, as a substitute for traditional fabrics, the angled 'eaves' of which looked most un-fabric-y, while lacking the period charm of 'dagged' railway-station canopies.

Again, as simple illustration of the possible value of some design re-thinking, it was pointed out that another (horizontally interlocking) awning was supported temporarily on unsuitable brackets, giving insufficient tension to keep the slats rigid. Personally, I (and I think other architects) would prefer the resulting 'sag' or curve: if it is felt that this is mere nostalgia for the charming *chinoiserie* of Regency-roofed balconies, one wonders why the modern product should be designed to look superficially like them! The open-slatted, drop-cantilevered 'shadow-casters' seemed both more logical and better looking.

But Luxaflex are obviously making the technical best of a good utilisation for a (literally and metaphorically) flexible material. On more nebulous niceties of aesthetics, perhaps their design staff will have had time to pop across and see Hammersmith's fresh approach to some contemporary problems, which prompts less of the odious comparisons with both tradition and current practice.

# News of the Week

### Hotel for South Bank

THE LCC on June 2 issued particulars of the 3¼-acre site immediately downstream of Waterloo Bridge, the development of which is intended to include a hotel of about 1,000 bedrooms associated with an entertainment centre, a convention centre, shops, residential and other approved use, but not office development. The new development will have a frontage to a riverside walk extending that included in the scheme for the South Bank, recently announced, which included the completion of the Royal Festival Hall and the construction of a smaller concert hall, recital room and exhibition gallery. The hotel may well be in the form of a high tower rising from a podium which could accommodate restaurants, shops and possibly a convention centre. It will have parking space for not less than 300 cars.

The Council is offering the site by public advertisement on lease for up to 125 years and asks applicants to give the name of the developer and his architect and to indicate with simple diagrammatic plans their general intentions in developing the site, and with an offer of the ground rent which they are prepared to pay. It is expected that the site, cleared to ground level, will be available for development by the autumn of 1963.

### Planning Department for Newport

NEWPORT, MON., council are to set up a town planning department. The council have decided that such a department will be needed in the town due to the many schemes to be carried out there in the near future. These include the building of a second river bridge, a by-pass around the town, and redevelopments on a big scale in the town centre. The department will be controlled by a chief planning officer.

### School Building Consortium

WEST SUSSEX COUNTY EDUCATION AUTHORITY is considering the establishment of a consortium whereby, in association with other local authorities, it might be possible to achieve economy in construction of buildings both in time and in cost. The county architect is proceeding with his study of the technical considerations involved and is investigating the nature of the construction which might be adopted as the basis for the consortium. At the same time consideration is being given as to the extent to which other local authorities might be interested as parties to the consortium.

### Housing Progress Report

THE HOUSING SUMMARY, presented to Parliament as a White Paper (Cmnd. 1381, HMSO, price 3d.) jointly by the Minister of Housing and Local Government and the Secretary of State for Scotland, shows that the number of permanent houses completed in Great Britain during April was 23,243 compared with 25,084 in April, 1960.

### Cricket: RICS Beat LMBA

IN AN EXCITING FINISH, the RICS Cricket XI beat the LMBA in the annual match at Earlsfield on May 31 by 56 runs, the LMBA last wicket falling a few minutes before stumps were drawn. The RICS scored 267 for 3 wickets in only 55 overs, and the LMBA, for whom Vidler and James put on 148 for the third wicket in 90 minutes, replied with 211, their last 7 wickets falling for only 33 runs. For the RICS T. F. Brown made 90 not out, and for the builders Vidler hit a scintillating 103. B. Lindsey, who also made 71, took 5 LMBA wickets for 16—a fine all-round performance.

### Council for Visual Education

THE ANNUAL MEETING of the Council for Visual Education is to be held at 3 p.m. today (June 9) at the Royal Society of Arts, John Adam-street, Adelphi, London, WC2. The principal speaker will be Mr. Henry Brooke, Minister of Housing and Local Government, who will discuss 'The Importance of Good Design.' The Earl of Euston will preside.

## Professional Announcements

MR. N. G. KELSEY, FRIBA, and MR. H. R. STEWART-HUNTER, MA, ARIBA, the partners of MESSRS. G. J. JOLLY AND PARTNERS, chartered architects, announce that henceforth the firm will be known as MESSRS. KELSEY & HUNTER AND ASSOCIATES. The firm will operate from the new head office address at Dralda House, Keswick-road, London, SW15. The addresses of the practices at Kaduna (Nigeria), Brighton and Portsmouth remain unchanged. Associate members are MR. P. GOLDING, ARIBA, and MR. E. MILES, ARIBA. MR. J. ERNEST FRANCK, FRIBA, MISTRUCT.E, will continue as consultant.

MR. R. LEWIS REYNISH, FRIBA, announces that his practice has been amalgamated with MESSRS. KELSEY & HUNTER AND ASSOCIATES, of London, Portsmouth, Brighton and Nigeria. The practice will continue to operate from Kent Lodge, Queen's-crescent, Southsea.

MESSRS. KELSEY & HUNTER AND ASSOCIATES wish to announce that their practice in Northern Nigeria has been in operation since January 1, under the style of MESSRS. KELSEY & HUNTER (NORTHERN NIGERIA). The resident partner, MR. G. F. WOODCOCK, ARIBA, will be pleased to receive trade catalogues at Box No. 206, Kaduna, Northern Nigeria.

MESSRS. ANDERSON, FORSTER AND WILCOX, chartered architects, have moved their office from 9 Stone Buildings, Lincoln's Inn, London, WC2, to 27 Ely-place, London, EC1. This change took effect on June 5. The telephone numbers, Holborn 5508 and Chancery 5151, remain unchanged.

As from June 1, 1961, the partnership of Huckle & Durkin, architects and consulting engineers, will be reformed. MR. D. DURKIN, BSC, MICE, MISTRUCT.E, and MR. T. F. MORAN, MISTRUCT.E, will practise as DURKIN & MORAN, consulting engineers, at 268-270 Sefton House, Exchange Buildings, Liverpool 2, and MR. H. G. HUCKLE, FRIBA, AMTPI, and MR. J. K. HUBERT, ARIBA, will be joined by MR. J. D. CHAMBERLIN, ARIBA, and will practise as H. G. HUCKLE & PARTNERS, chartered architects, at 30, Queen Anne-street, Cavendish-square, London, W1.

MESSRS. JACK W. STOCKINGS & CLARKE, chartered quantity surveyors, of Norwich and Thetford, are opening a branch office at 26 Harborne-road, Edgbaston, Birmingham 15 (tel.: Edgbaston 3061), as from June 19. The branch will be under the management of MR. T. E. M. HEARN, ARICS, who will become an associate of the firm. Trade catalogues and price lists will be appreciated.

MR. C. F. INGLIS CLARKE, ARICS, has left the employment of Midlothian County Council, where he was the senior quantity surveyor, and has set up in practice on his own account as a chartered quantity surveyor at 33a Colinton-road, Edinburgh, 10, as from June 1.

MR. EDGAR F. YOUNG, ARICS, AIARB, chartered quantity surveyor, formerly of 4 Imperial-square, Cheltenham, is now practising at 2 Tivoli-lawn, Tivoli-road, Cheltenham, where he will be pleased to receive building and allied trades literature. The telephone number remains unchanged.

## A Hundred Years Ago

**From The Builder of June 8, 1861**

IMPROVEMENTS IN SPADES AND SHOVELS.—Messrs. Spear & Jackson, of Etna Works, Sheffield, have just patented an improved method of making these articles. They take a bar of solid cast steel, full temper, into which, by powerful machinery, they punch a hole just large enough for the foot of the handle to enter: afterwards they forge and hammer it down to the required thickness and finish. Thus the whole tool (minus the handle, of course), being of cast steel, is uniformly strong throughout; and there being no welding it cannot work loose.

## Coming Events

*FRIDAY, JUNE 9*

TRINITY COLLEGE, DUBLIN.—Exhibition of Designs in Library extension competition. The Long Room, College Library. 10 a.m. to 4 p.m. (Saturdays 1 p.m.) until June 23.

THE COMEDY GALLERY.—Exhibition of water-colours and drawings by John Dean (J. D. M. Harvey). 8 Oxendon-st., Haymarket, SW1. Daily 10.30-5.30 p.m. (until June 29).

*MONDAY, JUNE 12*

BRITISH ELECTRICAL DEVELOPMENT ASSOCIATION.—13th British Electrical Power Convention. The Winter Garden, Eastbourne. 3 p.m. (until June 15).

INSTITUTE OF BUILDERS (MIDLANDS BRANCH).—Visit to the Birmingham & District Industrial Safety Group Training Centre, Summerrd., Acocks Green, Birmingham 27. 6.45 p.m.

*TUESDAY, JUNE 13*

INSTITUTION OF CIVIL ENGINEERS.—Annual meeting. Great George-st., SW1. 5.30 p.m.

*WEDNESDAY, JUNE 14*

CEMENT & CONCRETE ASSOCIATION.—Photographic exhibition: 'Structures for Sea and Sun.' Victoria Hall, Lord-st., Southport (until June 15).

THE ROADS IMPROVEMENT ASSOCIATION.—Annual meeting. RAC, Pall Mall, SW1. 12 noon.

LMBA (CENTRAL AREA NO. 1).—Brains Trust. Derry & Toms Restaurant, W8. 12.30 p.m.

REINFORCED CONCRETE ASSOCIATION. — Annual meeting. Institution of Structural Engineers, 11 Upper Belgrave-st., SW1. 5 p.m.

ART WORKERS' GUILD. — 'Book-Binding Revisited,' by Bro's. R. Powell and P. Waters. 6 Queen-sq., WC1. 7 p.m.

*THURSDAY, JUNE 15*

EXHIBITION. — International Construction Equipment Exhibition. Crystal Palace, London (until June 24).

INSTITUTE OF BUILDERS DISCUSSION CLUB.—Presentation of diplomas to candidates successful in last year's Associate and Licenciate exams. 48 Bedford-sq., WC1. 6.30 p.m.

ARCHITECTS' CHRISTIAN UNION.—Reception. Speaker: C. Oliver Styles. RIBA, 66 Portland-pl., W1. 7 p.m.

*FRIDAY, JUNE 16*

FACULTY OF ARCHITECTS & SURVEYORS.—Dinner on board s.s. 'Kenya,' in London Docks. 7.30 p.m.

*SATURDAY, JUNE 17*

INSTITUTE OF BUILDERS DISCUSSION CLUB.—Visit to the Dagenham works of the Ford Motor Co. Ltd., Dagenham, 9.15 a.m.

# RICS

## Final Examination Results

THE Royal Institution of Chartered Surveyors announce the results of their Final, Direct Membership and Land Surveying Examinations held in Spring, 1961. Of 1,881 candidates, 713 have been successful. The following have been awarded prizes on the results of these examinations:

*Gold Medal:* Not awarded; *Wainwright Prize:* W. M. Whetter (London); *Galsworthy Prize:* J. R. Vail (Gosport); *Driver Prize:* P. G. Hand (Stoke-on-Trent); *Institution Prize:* J. R. M. Ridgwell (Mold); *John Gilchrist Prize:* N. J. Leslie (Edinburgh); *Christopher Simpson Prize:* D. M. Stakes (Wakefield); *Beadel Prize:* R. S. Hollins (Thames Ditton); *Mellersh Prize:* R. R. Patrick (Farnham, Surrey); *Crawter Prize:* T. C. Grieve (Stirling); *Building Construction (III) Prize:* B. L. Porter (Heathfield, Sussex); *Quantities Prize:* John Sloan (Mauchline); *Earp-Thompson Prize:* Peter Fleming (Hamilton).

### FINAL EXAMINATION—TOWN AND COUNTRY PLANNING SECTION

D. Ashley, E. S. Benefield, J. G. Bisset, D. Ellerby, E. J. Harcombe, N. F. Rawes, T. J. Upsall.

### FINAL EXAMINATIONS—BUILDING SURVEYING SECTION

D. L. Alcock, R. Bland, B. E. Brown, R. M. Burgess, D. J. Cockle, J. S. Collins, R. J. Collison, C. Dobson, M. Ferris, A. Forbes, M. S. Freedman, P. K. B. Gatrill, R. B. J. Gibbon, W. F. H. Gibbon, M. D. Glanfield, N. Goodridge, J. M. S. Gurney, R. G. Gwynn, J. M. Hawkins, H. F. Hollands, H. K. B. Lewis, J. H. Lewis, I. Morris-Roberts, B. L. Porter, D. A. N. Ratcliff, E. Roe, W. G. Rule, F. J. Shoesmith, W. L. Stokoe, R. Tatler, J. N. Tong, R. Tully, W. F. Turland, J. C. Wetherall, J. W. Whitefield, C. F. Wiles, C. B. Wilkins, R. A. Wood, D. J. Woods.

### FINAL EXAMINATION—QUANTITY SURVEYING SECTION

B. Adams, D. M. Alford, D. Allen, D. A. Alleway, D. G. Anderson, Miss J. K. Anderson, I. M. Ashby, M. G. Avery, J. E. L. Bailey, D. J. Bainbridge, G. W. Bainbridge, R. W. Barnard, J. C. Bartle, J. A. Barton, R. Bates, S. E. Beilby, N. G. Benham, K. J. Bennett, M. J. Biggs, P. J. Birkett, R. Bishop, D. Bixby, N. Bonnington, W. A. R. Brooke, W. B. S. Brown, D. J. Bucknall, J. R. Burgess, P. J. Burnham, M. E. Burrows, T. A. Campden, E. T. Carpenter, G. E. Carr, D. F. Carter, W. B. Cavill, C. S. Charlesworth, N. N. S. Chong, A. V. Chubb, D. O. Clark, D. J. Claydon, J. K. Clelland, P. B. Coldham, G. A. Cole, T. L. Cooksey, W. E. R. Coombs, J. E. Coope, G. J. Cooper, R. L. Cooper, R. D. Coulthard, J. Courtney, C. G. Crabtree, M. C. Cronin, G. E. Crowley, G. E. Cunningham, C. M. Curteis, R. B. Daily-Hunt, G. R. Dale, R. E. Darkins, J. B. Dilworth, C. B. Douglas, J. W. N. Dove, R. H. Down, B. L. Eames, J. Eastham (Jnr.), M. J. Edwards, C. C. Eyres.

B. C. Feigl, A. H. Foster, E. R. Frankland, K. F. Fraser, H. J. Frayne, J. M. Frazer, P. French, B. P. Frost, G. B. F. Frost, A. Fuller, C. A. Galloway, B. R. Gibbons, D. L. Giddings, T. W. Godfrey, D. Goldblatt, M. E. Goodway, J. D. Gorie (ARICS), M. Gregory, N. F. Hackett, R. S. Hall, R. D. Hankinson, M. J. Harban, J. R. Hardwick, J. R. Hardy, V. Hares, G. W. Harris, P. B. Harris, R. A. G. Hawkins, J. P. Hayman, J. Heavisides,, M. P. Heckler, D. E. Hicks, B. S. Hill, J. M. Hill, D. Hooker, M. A. Hopkins, D. Houghton, A. J. Hurst, B. A. Imms, V. M. Inglis, A. Jackson, C. T. Jenkins, G. G. Jenkins, D. H. Jex, A. P. Jeyes, F. G. Johnson, T. J. B. Jones, T. W. J. Judge, D. G. Kelly, J. G. Kelly, J. C. Kettlewell, R. W. Kingsbury, M. Kirby, B. D. Kitson, M. Kitt, D. Knights, M. V. Lague, E. J. Lambert, M. S. Lane, R E. N. Lavis, J. Leigh, D. C. Lewis, K. G. Little, F. Livingstone, W. E. Lowry, J. P. Lynn.

A. J. Manders, D. Marshall, J. L. Martin, A. W. Meek, R. Melling, C. Middleton, A. R. Midwood, K. J. Milburn, F. G. Millar, J. B. Millar, J. C. Mitchell, P. R. Mitchell, W. J. Mockridge, A. R. Morrice, B. Needham, J. E. Nettle, G. R. Nunn, E. M. O'Sullivan, J. D. O'Sullivan, R. G. Oakley, D. Odell, P. S. O. Osborne, M. F. Oulton, K N. Owen, D. E. Parker, K. G. Partridge, C. L. Payne, B. J. Peachey, G. E. O. Peacock, D. J. Pearce, R. G. Penny, G. S. Peters, G. D. Phillips, D. C. Picton, W. R. Pippen, R. F. Preece, R. W. Press, G. A. Price, R. E. Pritchard, S. R. Purkiss, D. J. Pyle, D. Rahill, D. L. Rainbird, F. D. J. Randell, P. J. Ranner, A. E. Ranson, J. A. P. Rathbone, B. Rawling, S. G. Reakes, G. W. Reeve, P. T. Rew, J. B. Richardson, J. C. Richardson, C. W. Ridge, R. W. Robinson, H. Robson, F. S. Rosindell, J. R. Royce, M. P. Ryan, T. M. Ryan, P. E. Ryde.

P. Salmon, R. J. Sampson, A. J. Scott, C. F. Sear, B. Shanson, J. D. Shaw, F. J. Sheppard, A. Siddall, W. A. Sketchley, T. K. Skinner, D. K. Smith, R. A. Smith, K. Snape, D. T. Sorrell, C. J. C. Spalding, M. J. Spawton, F. W. Spencer, A. J. S. Spurrell, E. A. Stacey, P. D. Stevens, P. Stokes, M. E. H. Sturt, R. G. Suckling, B. D. Swain, R. A. Swann, P. G. Symonds, G. J. Tait, J. C. Tarring, A. Taylor, C. B. Taylor, P. J. Terry, P. J. Thorp, V. R. Thorpe, G. F. Tollerfield, B. S. Toogood, A. E. Turner, B. S. Turner, D. J. Vickery, D. H. Voller, B. L. W. Waite, C. Walker, C. E. Walker, E. M. Walker, A. J. Ward, R. E. Watkins, P. Wells, M. J. West, G. Whitaker, D. Whiteman, R. H. Whittington, B. Williams-Jared, C. J. Willis, J. S. Wingfield, A. Yates, B. M. Yates.

## SCOTLAND

### FINAL EXAMINATION—TOWN AND COUNTRY PLANNING SECTION

P. Clark and J. M. Webster.

### FINAL EXAMINATION—BUILDING SURVEYING SECTION

J. Farquhar and J. Malcolm.

### FINAL EXAMINATION—QUANTITY SURVEYING SECTION

A. A. Arneil, N. T. H. Baird, S. C. Banks, J. T. C. Bell, R. S. Bell, L. F. Berkeley, N. G. Berry, P. D. G. Bissett, J. T. M. Blyth, T. E. Bonfield, I. W. Bowie, J. S. Brockie, D. R. Brown, M. Brownrigg, G. Bruce, W. J. S. Campbell, J. Clark, G. Cornwell, R. C. Crilly, J. S. Cunningham, H. Cuthbertson, R. M. Dallas, G. M. Dobbin, J. J. Donnelly, A. B. Dudman, D. Duff, E. W. Ewing, D. J. Farquharson, J. Finlayson, J. Finlayson, S. D. Firth, F. W. Fleming, P. Fleming, D. L. M. Forbes, A. W. Foster, R Fraser, P. A. Gibbons, T. F. Goudie, R. Graham, W. R. Grant, G. C. Gray, J. H. Hollerin, H. P. Hunter.

R. H. Irving, A. D. Johnsone, J. Kyle, J. L. Lammie, T. Laurie, J. Leal, D. Lee, R. F. H. Liddell, J. Lindsay, D. E. Lines, K. M. MacDonald, J. D. Mackay, J. A. W. Maclean, I. A. McClymont, A. W. McNaught, A. C. McNish, P. Manzie, D. C. Meechie, G. D. Mitchell, I. D. Muir, S. H. Murdoch, O. S. Mylet, C. C. Neasham, G. W. Paul, E. Peters, J. D. O. Ramsay, G. J. Reynolds, D. W. Ritchie, J. D. M. Robertson, I. M. Ross, N. Rushbrook, W. M. Samson, J. G. Scoon, R. W. Scott, W. H. Scott, A. Selkirk, J. Sloan, E. J. Slorach, A. G. W. Symington, G. A. Thomson, W. N. Walker, D. Wallace, J. Williamson, H. G. Wylie, A. Young, G. A. Young, J. H. Young.

## NORTHERN IRELAND

### FINAL EXAMINATION—QUANTITY SURVEYING SECTION

F. Baird, H. M. Blamphin, J. Christie, P. J. Frizelle, R. D. Holmes, P. H. Hood, R. S. W. Shaw, J. C. Stevenson, B. P. Watson, D. A. Wilson.

## REPUBLIC OF IRELAND

### FINAL EXAMINATION—QUANTITY SURVEYING SECTION

J. K. Brownlee, D. P. Kelly, and J. P. S. McKenna.

## OVERSEAS

### TOWN AND COUNTRY PLANNING SECTION

Y. M. Pinge (Bombay 1).

### QUANTITY SURVEYING SECTION

B. Arundale (Melbourne, Australia), D. J. A. Fleming-Wood (Toronto), W. H. George (Sydney, NSW), A. J. Gorman (Johannesburg), R. H. Hewitt (Trinidad), A. J. Hobbs (Johannesburg), L. T. L. Horwood (ARICS) (Adelaide), A. W. Lane (Hong Kong), Fook Sing Lau (Singapore), F. D. Manley (Singapore), J. Moore (Windhoek, SW Africa), C. G. Parker (Adelaide).

## ENGLAND AND WALES

### DIRECT MEMBERSHIP EXAMINATION, 1961

### VALUATION SECTION

F. J. Hilis and E. A. Vallis. *University Graduate:* A. F. Wigram, BA.

### TOWN AND COUNTRY PLANNING SECTION

R. H. Blundell and S. H. Nicholls. *University Graduates:* G. E. Cherry, BA, and R. Swire, BA.

### BUILDING SURVEYING SECTION

A. A. Tait.

### QUANTITY SURVEYING SECTION

R. J. Everson and B. N. Miles.

## SCOTLAND

### DIRECT MEMBERSHIP EXAMINATION BUILDING SURVEYING SECTION

T. Logan.

## NORTHERN IRELAND

### DIRECT MEMBERSHIP SECTION QUANTITY SURVEYING SECTION

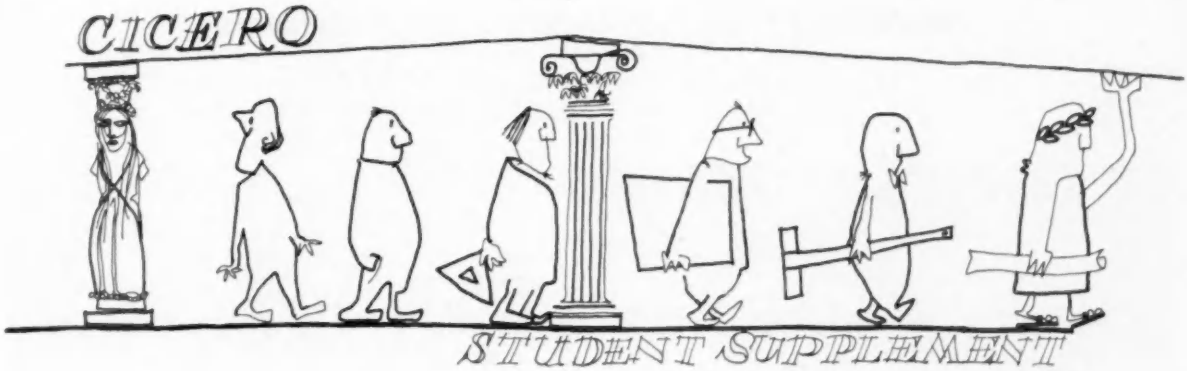
T. H. N. Burke and S. M. Cunningham.

# Architectural Association

## *Election of Officers*

THE RESULT of the ballot for the election of the officers and council of The Architectural Association for the session 1961-62 was as follows:—President: J. M. Austin-Smith, MC, TD, FRIBA, AA Dipl; vice-presidents: Anthony Cox and Gabriel Epstein; hon. secretary: Leo De Syllas; hon. treasurer: John Lacey; hon. editor: Leonard Manasseh; hon. librarian: Peter Newnham; past president: Edward Playne.

Ordinary Members of Council: F. R. Baden-Powell, John D. Broadbent, Dargan Bullivant, James Cubitt, Ernö Goldfinger, Peter Moro, Hugh C. Morris, Frank Newby, Geoffry Powell, Michael Powell.




Schools of Architecture: 2

# Kingston School of Art, Department of Architecture

ARCHITECTURE as a full-time course at Kingston School of Art emerged in 1941 from a rather shadowy pre-war evening and part-time arrangement. Formed by a handful of students under Mr. Eric Brown's direction, it developed until, in 1947, the first candidate sat for the final examination of the Royal Institute of British Architects. The return to normal conditions of study following the end of the war was accompanied by an increased enrolment, thus making possible the stabilisation of the course. Although an application for recognition in the late forties was rejected by the Institute, the school continued to thrive and in 1956 it was granted both stages of recognition simultaneously—at that time an unusual achievement.

The policy has been to keep the school small in numbers to maintain personal contact between staff and students, to avoid an over-complicated administration and to make the school's diploma a mark of highest quality. Numbers vary annually around the 130 mark with a student-staff ratio of about 1 to 12. There is a part-time evening course of approximately equal numbers.

### Office Experience

Though the five-year curriculum may be said generally to follow the common pattern of most British schools, it contains important features which are at the moment without parallel, and which are intended to avoid the dangers of the usual lengthy internal academic course. For example, every student is obliged to gain at least four weeks office experience each year, usually during the summer vacation, and a further full year's office training between the third and fourth years of the school course. This last period in particular has been found to be most valuable in relieving the staleness which tends to develop in students, to correct the well-known tendency of third-year students to over-intellectualise their attitude to study, and generally to produce a more evenly balanced fourth-year student. In addition, another result is that the student, when he leaves the school to start his post-graduate year of office practice, has already had at least fifteen months previous experience, and in consequence the commonly expressed complaint from the profession that an architectural school graduate is of little use on entering an office is rarely heard in respect of Kingston graduates. The offices chosen by the students for this practice are approved by the school and their progress is formally checked. No attempt is made to integrate this office experience with the school course.

### Technological Bias Resisted

The current vogue for an emphasis on scientific or technological bias in the course has been resisted, the conviction being firmly held that if the technical subjects are fully and soundly taught by practising experts (as they are at Kingston) and a larger proportion of studio time given to exercises in these subjects, architecture will still be regarded in the school as primarily an art. To emphasise this there is a history of art course in the first three years, and historical architecture is studied throughout the whole five years.

Generally the introduction of fashionable auxiliary subjects has also been resisted, although facilities for many of these are available in other completely autonomous departments. The subject of town and country planning is, however, introduced and carried to its proper proportion. The student has considerable experience of the study of small towns and city precincts. Each year the current second, third and fourth years travel to a suitable locality, usually a small town of from 3,000 to 7,000 inhabitants, and make a comprehensive study of its principal buildings, general topography and architectural quality, historical and social development and current needs, and possible ways of meeting them. In this way the students are early introduced to the importance of the subject and have three consecutive and varying opportunities of studying it. This enterprise has other advantages; it provides a social opportunity in the form of an informal camp, and opens the eyes of the London area student to the variety and richness of provincial England.

An extension of this study in the fifth year is the investigation and solution of the problems of a city precinct. This is made in considerable detail, usually with a strong element of practicality, and has proved often to be of value to the community concerned. An example of the latter is the town of Kingston itself. A few years ago a study of the town was made which is now being actively studied by a planning group set up by the Kingston Corporation with the task of coping with its increasing redevelopment problems. One other unusual feature of the course at Kingston is that a drawn thesis in the fifth year, considered by most to be the 'piéce de resistance' of a student's school activities and the final justification for entry into the profession, is not included. There is, however, a written thesis during the fourth year.

### Post-Graduate Course

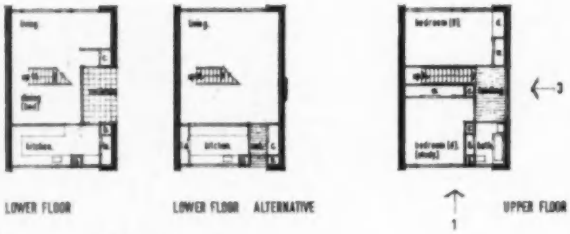
Then a practising architect of many years' experience, Eric Brown, on being presented with an opportunity of founding a school of architecture, determined that this should be one free of the defects in teaching so commonly voiced, and which his own experience of architectural schools has proved to be only too true. This he is encouraged by results to believe has been achieved, although, he says, there is still much to be done before the school-trained architect will be able to re-establish his profession's proper status in society. Among the plans to this end which are to be implemented at Kingston is the establishment of a post-graduate course, intended not as a continuation course for students, but one of re-entry into study by those with adequate practical experience. It will be a development of a two-stream (not two-tier) course with specialisation either in design or technology, and culminating in equivalent degrees for both fields. How much of these and other plans can be realised will depend on the energetic co-operation and assistance of lay and professional authorities and, not least, by the students themselves.

# Housing Project at Drayton St. Leonards

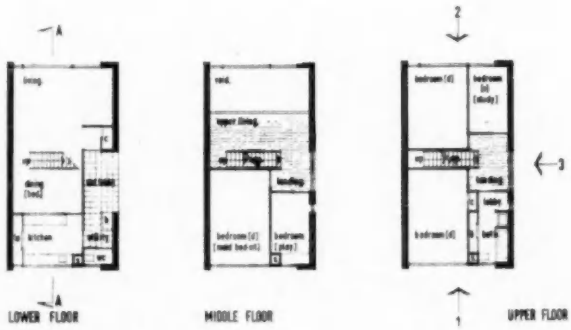
FIRST GROUP SCHEME BY M. BLACKSTOCK, J. CUTHBERT AND D. BUTLER,
*fourth year, Kingston School of Art, Department of Architecture*

*site lay-out*

*analysis map*

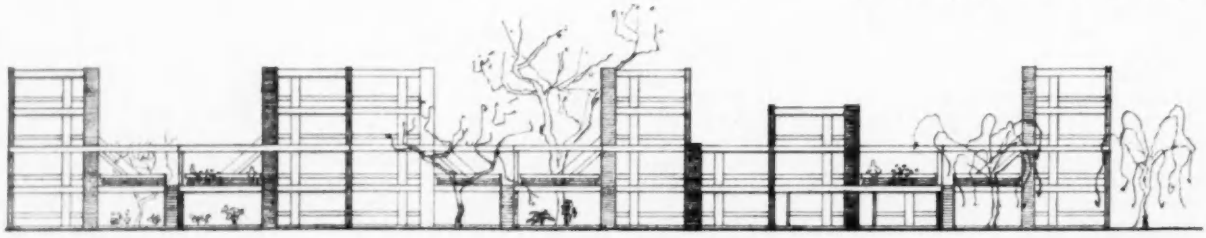



*three-roomed dwelling*




*seven-roomed dwelling*

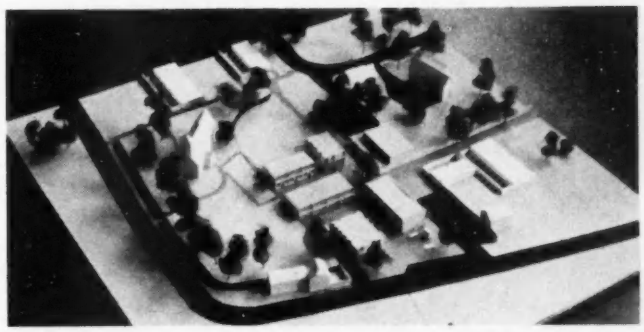
*elevation of typical terrace dwellings*



SECOND GROUP SCHEME BY M. ADKINS, C. SCOTT AND S. KHANJI,
*fourth year, Kingston School of Art, Department of Architecture*

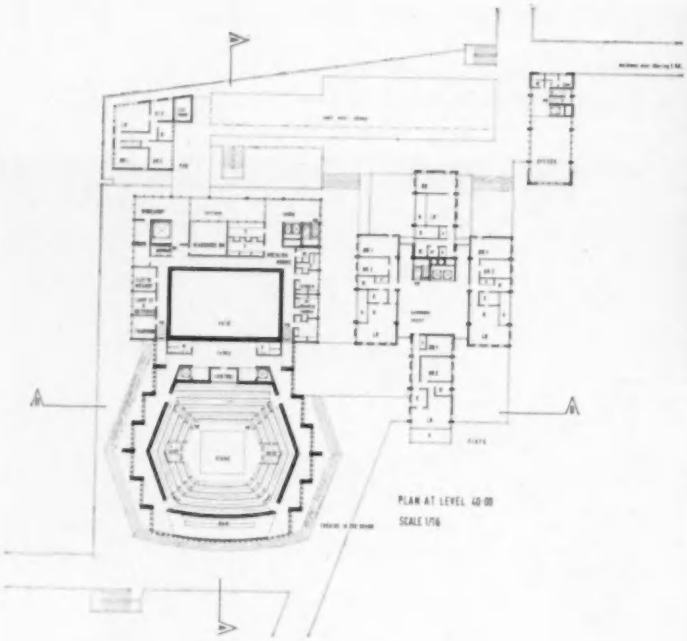
*perspective of central area by S. Khanji (inset)—photograph by Dennis Berry, ARIBA*

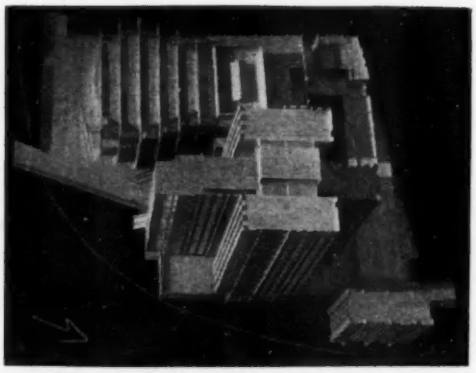
*students' model of second group scheme, central area*



IN PREVIOUS YEARS the students had conducted research into domestic planning and this fourth-year programme was intended to extend this subject. It was to be a study of plan types and was to be concerned with an investigation of the best examples of housing layouts and forms from England and other countries together with the more practical and factual aspects of housing generally. The students were required to investigate space requirements for various family units, including those for old people; heating and domestic hot water installation and their effect upon layout and materials used in construction; all types of domestic equipment; finishes in terms of economics, maintenance, etc.; and street lighting, roads and main services.

*the original location at Drayton St. Leonards under survey by students*



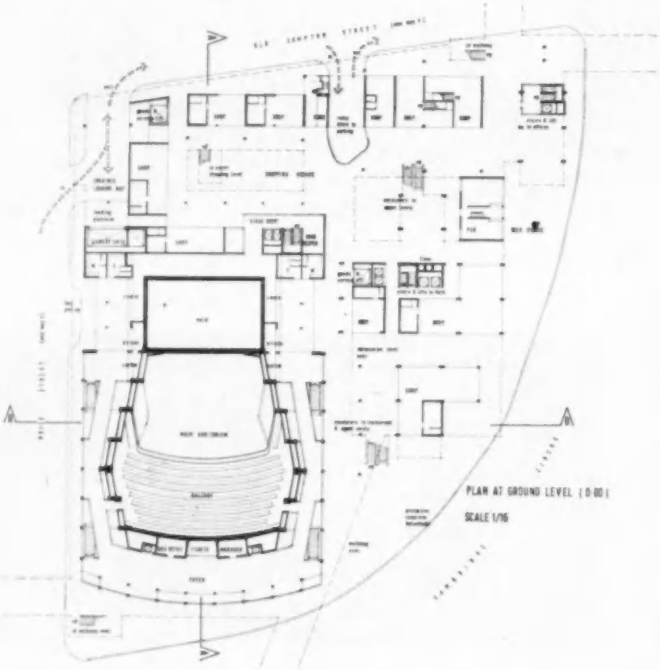



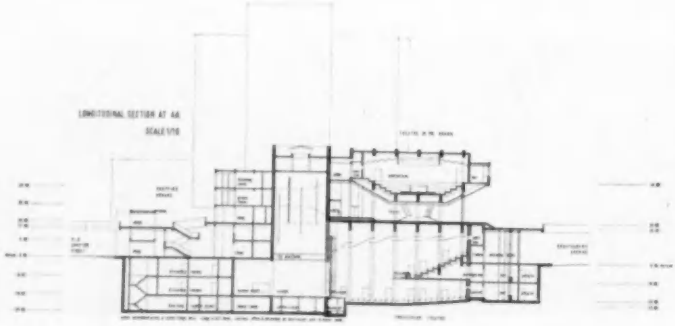
*student's scale model of the project*

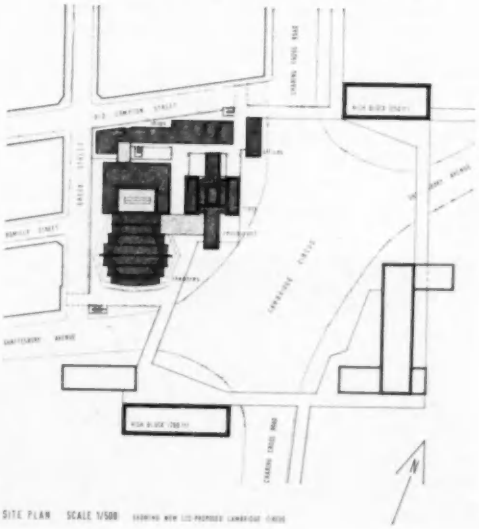
# Cambridge Circus Theatre Project

E. WATSON, *fifth year,*
*Kingston School of Art,*
*Department of Architecture*

THE PURPOSE OF THIS PROGRAMME was to give the student an opportunity to design an auditorium to fit the current requirements of a London location. The site for the theatre lies in London's west end on the west side of Cambridge-circus and consequently had to be fully developed. The extent and nature of the accommodation to be provided in association with the theatre would be based on the client's general advice. The architectural interpretation was to be the responsibility of each student and was an important aspect of the design problem. The comprehensive development had to include three island sites bounded by Greek-street, Old Compton-street and Charing Cross-road. The whole development was proposed to be linked over the traffic ways by pedestrian bridges approached by moving pavements or escalators which provided a piazza over a podium of shops and ancillary ground frontage uses. The project envisaged a complete modern theatre to seat about 2,000, a smaller theatre or cinema, offices, flats, a pub, a restaurant, shops and garages.



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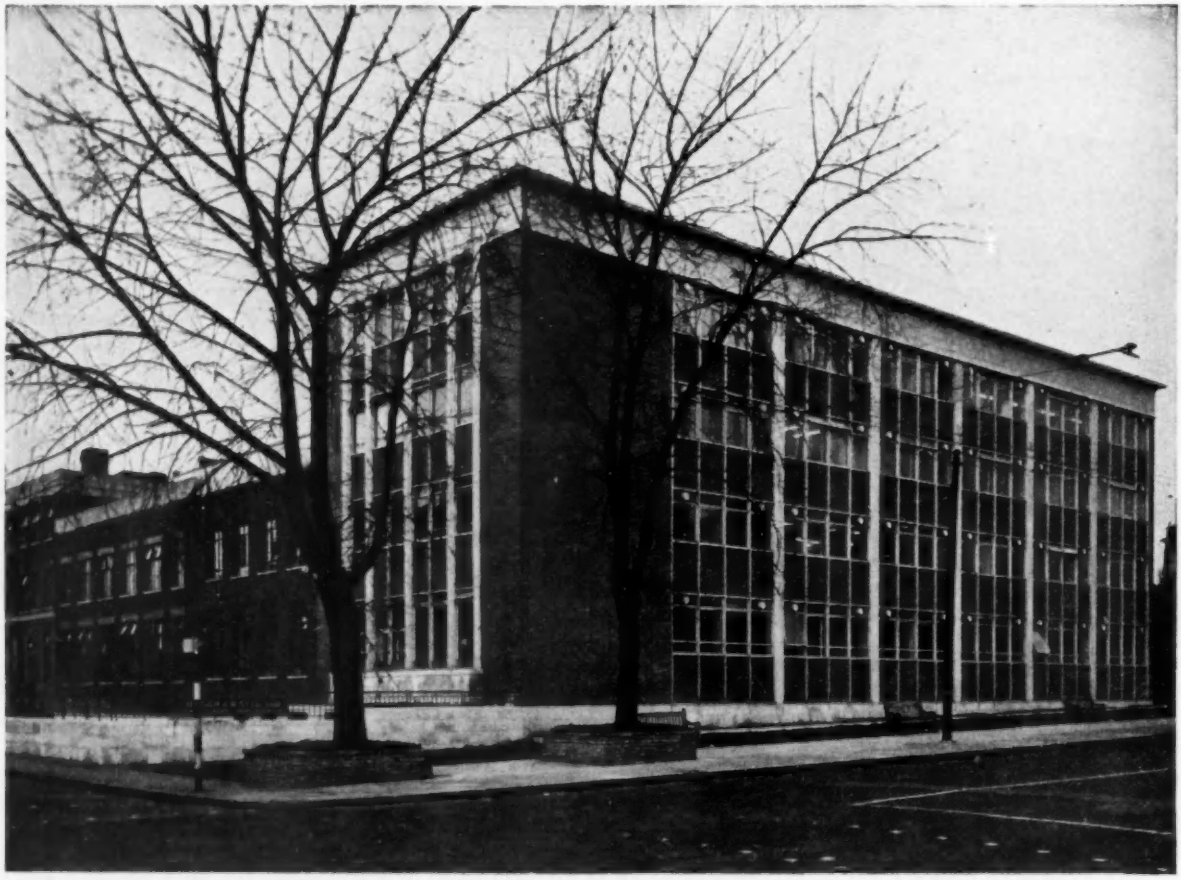

*Architect:* J. Francis Smith, F.R.I.B.A., F.R.I.C.S.

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# News and Comments

## A New Department With New Ideas

THE FORMATION of a new department of architecture in the College of Science and Technology, Bristol, is the latest contribution to the improvement of architectural education. The department's basic aim is the enlargement of the all-round knowledge and capabilities of the student architect. The college itself is one of nine new colleges of advanced technology now being formed throughout the country, writes R. S. BRACKLEY. The department of architecture is shortly to move into a Georgian house on the outskirts of Bristol, on the site of proposed new buildings for the whole college. Students will be able to watch the progress on these buildings.

The policy at Bristol is to provide a college-based, five-year sandwich course consisting each year of six months' work at the school and a further six months of practical experience. The practical experience is controlled so that the student can be directed into the form of work his temperament and capabilities demand. Many students find that the six months complete break during the summer allows them time to find work abroad, thus increasing their knowledge and experience.

Five basic principles of design have been developed to provide continuity throughout the course and as a common system of communication. Design problems are a little simplified, but with a great deal of emphasis on analysis and methods of externalisation. These principles allow judgment of a building both as an art form and as a scientific structure.

This system of training, it is believed, is entirely new and there exists at the school an air of expectancy for its future. If the course is to succeed, it must have the full support of both students and those authorities outside the school who guide the policies of architectural education.

## Summer Optimism at Manchester

MISS FRANCES PAYNE, our Manchester correspondent, reports that, after a hard vacation spent catching up with the year's work, first and second year design models presented chaos in the criticism rooms during the first week of term. Third-year communal civic design schemes showed traditional suburban housing forms vying with miniature 'Peterlees' among the sponge trees. Fourth-year students, relieved of eight weeks of working drawings, are now catching up on their sleep; and the harassed fifth-year, a prodigious amount of work behind them, are still doing some last-minute thesis-spraying and writing their reports. Ahead lies the prospect of examinations, including the fourth-year, 4-day design and construction test, dreaded for the previous three years. A highlight of the Student Society activities came at the end of May when Professor Naylor, of Florida University, spoke on 'My Own Sculpture, Contemporary American Art and the Artist, and the University in the USA.' Another item of interest was a lecture on 'Urban Renewal,' by Mr. Percy Johnson Marshall, ARIBA, sponsored by the Manchester Society of Architects. A fifth-year student, Norman Foster, has received the Thorburn Award to Yale University.

* * *

A LECTURE on 'The American Scene' is to be given on June 13 by Mr. Francis Jenkins, ARIBA, lecturer at the school and visiting professor of the University of California. A programme of films arranged for June 20 includes 'Momma Don't Allow,' 'L'Enfer de Rodin,' 'Pacific 231' and 'Lizzies of the Field.' These have been arranged by the University of Manchester Architectural and Planning Society.

## Oxford Students' Magazine Venture

A GROUP OF STUDENTS at Oxford School of Architecture are to start a student magazine to be published three times a year—during the second week of each term. Editorial policy, writes JIM HALLIWELL, is one of literary freedom in the hope of stimulating interest in the arts for both student architects and the general reader. The first issue is ready for the printer. The editors are on the look-out for suitable material and are anxious to receive contributions from students of architecture everywhere. Articles for consideration should be sent to J. Halliwell, at the School of Architecture and Building, College of Technology, Art and Commerce, Headington, Oxford.

Michael Smith and John Cooper have gone through to the final stage of the Soane Medallion.

## Fire at Nottingham School

EXTENSIVE DAMAGE, estimated at £7,000, was caused when fire broke out at the Nottingham School of Architecture, Tennyson Hall, Nottingham, on the night of May 28. Until the safety of the ceiling has been guaranteed the students are using alternative accommodation at Clavendon College—the school is to be transferred to Nottingham University in two years' time. Our correspondent, JOHN KNOWLES, has not mentioned whether any studio work or individual portfolios have been destroyed. We hope that on this omission hangs a more happy story.

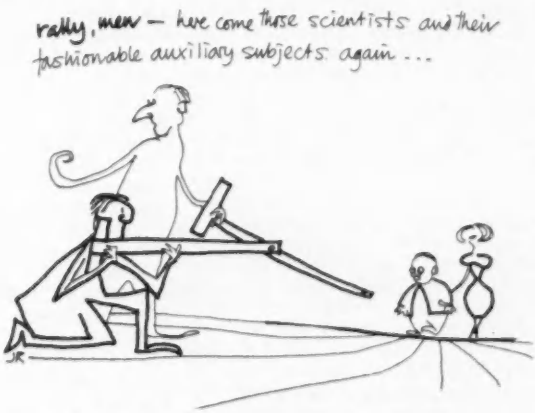
## Reception for Foreign Students

ONE IMPORTANT CONTRIBUTION by students to the forthcoming IUA Congress is the arrangement of the first major representative exhibition of work from British architectural schools in the Florence Hall at 66 Portland-place, London, W1, from July 2 until July 6. The show will include sculpture, lithographs and etchings as well as architectural design, and it has been designed with simple demountable panels for travelling to the BASA summer school at York and to other centres later.

Students have found places in hostels and private homes for 150 of their foreign colleagues, who will be well looked after by the London schools, each of which has made itself responsible for a group. They are providing about 30 guides, interpreters and stewards, and 15 scooter messengers. All this hard work is being celebrated at a dance for foreign and British students at University College on July 5.

## Polishing Their Polish

AT THE ANNUAL GENERAL MEETING last month of the West Yorkshire Society of Architects, writes DAVID THOMAS, two senior students from the department of architecture (Huddersfield Technical College) followed a year-old precedent by giving illustrated talks on their impressions during recent visits to Spain and Greece. A major attraction at Huddersfield is the arrival of a lady student from Warsaw. Male students are busily polishing their Polish.




## RIBA Maintenance Scholarships

THE ROYAL INSTITUTE OF BRITISH ARCHITECTS offer for award in July the following maintenance scholarships in architecture tenable from October, 1961: Two RIBA Houston Scholarships of a maximum value of £125 per annum each; the Howe Green fourth and fifth year scholarship of £40 to enable students who have passed the intermediate stage to complete an approved course at a recognised school; and the RIBA fourth and fifth year scholarship of £60, which has similar aims. Applications for the scholarships should be made to the Secretary to the Board of Architectural Education, 66, Portland-place, London, W1, by June 23.

# Association of Official Architects

## New Aims Defined at Annual General Meeting

THE THIRD annual general meeting of the Association of Official Architects was opened by the chairman, at the RIBA, on May 13, when he addressed the meeting reviewing the present situation. MR. THURSTON M. WILLIAMS repeated briefly the successes achieved in the past year, including trade union certification, the obtaining of a seat on the grading sub-committee for the professions in local government and repeated successes in claiming correct designation in advertisements for architects.

He went on to outline the work of the Association in the next twelve months and advocated a review of the salary standards adopted a year ago owing to the quickly changing situation and including a further independent arbitration award, which has already made last year's pay awards in the hospital service out-of-date. Indeed, the incomes of architects in public appointments must rise in parallel to those in private practice where fees are linked to rising building costs. In addition, in private practice there is an increase in income forthcoming due to the recent revision in the scale-fee for state aided housing.

Furthermore, all sectors of the public services must aim at a similar salary level which should be based on a proper assessment of the value of the work handled by the architect. A resolution to this effect was overwhelmingly passed later during the meeting.

Mr. Williams went on to say that the Association would always try to act in the best interests of its members, and would try to represent members as a trade union. The Association would launch a campaign insisting that when a building is illustrated in the technical Press the architects who have worked on the project be named and particularly the 'job architect' properly credited.

### The Two Tiers

To have a right to claim high levels of salary for professional work of a high standard the Association would maintain its interest in the efficient production of work in official architectural practice.

Mr. Williams emphasised that a distinct contribution was being made to architecture by the various public offices. No better illustration could be found than the highest award of the Milan Triennale being made to a public office in this country. The architects of Notts. County Council were to be congratulated!

Mr. Williams concluded by stressing that during the coming year the Association must examine the possible effects of adopting a double tier profession on architects in official practice and formulate a policy on this issue which must in time be communicated to the RIBA.

When later during the meeting the report of the General Council for the year was presented, it was revealed that negotiations were taking place at the present time with the publishers of the magazine 'Official Architecture & Planning.' If these negotiations are successfully concluded this magazine would become the official monthly organ of the Association including editorial control. The magazine has always shown a sympathetic disposition to the Association and has reported its activities very fully.

Officers of the Association's executive committee for 1961-62 are: Chairman, Thurston M. Williams (LCC); vice-chairman, L. Duxbury (Manchester City); hon. secretary, G. J. Foxley (Derbyshire); hon. treasurer, J. T. Bell (Essex).

# Obituary

### *S. L. G. Beaufoy, CBE, FRIBA*

WE REGRET to record the death, which took place at Llandudno on May 31, of Mr. S. L. G. Beaufoy, chief housing and planning inspector of the Ministry of Housing and Local Government since 1958, and a distinguished past-President of the Town Planning Institute. He was 61. Samuel Leslie George Beaufoy was educated at Dover Grammar School and as architectural assistant to Professor S. D. Adshead was associated in preparing many town planning schemes. He was appointed town planning officer of Liverpool in 1927, moving in 1933 to the Ministry of Health, where he became chief housing and town planning inspector. From 1942 to 1947 he was assistant secretary at the Ministry of Town and Country Planning. In the latter year he became chief technical planner, remaining in that post until his appointment in 1958. He was made CBE in 1947. He held the Distinction in Town Planning of the RIBA.

### *Mr. George Heys, MSc, MIMunE*

THE DEATH OCCURRED on May 9, at the age of 69, of Mr. George Heys, MSc, MIMunE, who was borough engineer at Accrington (Lancs.) from 1952 until he retired in 1957. He joined the Accrington Council in 1920 and was appointed deputy engineer in 1933.

### List of Practising Architects

THE 1961 edition of the BDS Selective List of Practising Architects has now been published. Copies from the British Data Service at Ashlyns House, Ashlyns-road, Frinton-on-Sea, Essex.

# Leatherhead Schemes

## *Minister's Decision in Two Appeals*

THE MINISTER OF HOUSING AND LOCAL GOVERNMENT has decided to dispense with local inquiries in the case of two appeals against Leatherhead Council's refusal to allow developments.

In one, Mrs. S. Andrews sought permission to erect a detached house or bungalow with garage on a plot of ground adjoining Worple Cottage, Worple-road, Leatherhead, which application was turned down on the ground that it was considered that the proposed development was unsatisfactory and that it had no frontage to a made-up street which was properly laid out to serve this and adjoining land.

### Bungalow Refused

The other appeal was lodged by Chas. Osenton and Co., North-street, Leatherhead, on behalf of Mr. G. R. Rimmer against the refusal of Leatherhead Council to allow the erection of a bungalow or chalet-bungalow on land at the rear of 36, Barnett Wood-lane, Ashtead. In refusing the application, the council stated that the proposed development was unsatisfactory for the reason that it was not properly related on a road frontage to other dwellings in the locality and would be seriously detrimental to the character and amenities of the adjoining property.

Applicants in both cases and the council are to make statements to the Minister in writing and forms have been issued to a number of residents in the vicinity asking them to state their views in connection with the proposed schemes.

# Hospital Building Supervisors

## *Employment for Maintenance Work Discussed*

THE ANNUAL GENERAL MEETING of the Institute of Hospital Building Supervisors was held at the Olympia, London, W., on May 18 and 19. The main conclusion drawn from the general discussions was that much could be done in all areas by prevailing upon hospital management committees everywhere to employ building supervisors for the building side of hospital maintenance work. Such a policy would, it was stated, be of considerable benefit to hospitals, bringing all buildings up to a desired standard. Management committees who already employed building supervisors realised the value of such appointments.

The delegates passed a resolution to hold the half-yearly executive meeting at Manchester in September. It was also agreed that the next annual general meeting (the third) would be held in Scotland, preferably at Edinburgh, on May 5 or 12, 1962.

### Salary Scale Changes

Agreement has been reached by the Whitley Councils for the Health Services on increased salary scales for building supervisors employed by hospital management committees (England and Wales) and boards of management (Scotland). The new scales replace from March 1 those set out in paragraph 2 of PTB Circular 112 with a consequent revision of the annual leave change point.

SALARY SCALES

| *Single-unit group* | |
|---|---|
| *Beds* | *Salary* |
| 750-950 .. .. | £785 × £30(4) × £35(1)—£940 |
| 951-1,450 .. | £855 × £30(3) × £35(2)—£1,015 |
| 1,451-1,950 .. | £930 × £30(3) × £35(2)—£1,090 |
| 1,951-2,450 .. | £1,005 × £40(4)—£1,165 |
| 2,451 and over .. | £1,080 × £40(3) × £45(1)—£1,245 |

This agreement was published on May 18 in PTB Circular 128.

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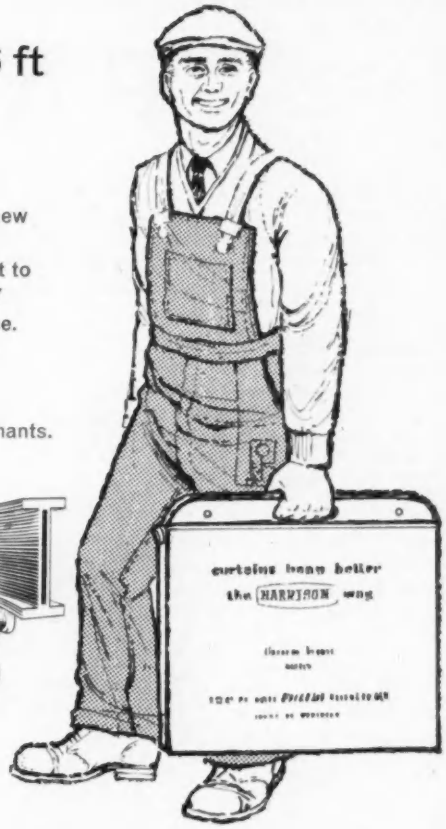


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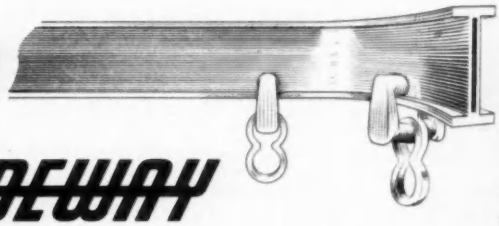

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# Co-operation Between Employers and Employees

## Mr. Weaver's Constructive Address

MR. HARRY WEAVER delivered the last address he will give as President of the Amalgamated Union of Building Trade Workers (at the beginning of July he takes over as General Secretary of the National Federation of Building Trades Operatives from Sir Richard Coppock) at Whitby on June 5, where the 33rd National Delegates Conference began. It continues until to-day (June 9).

In his address Mr. Weaver said that the Union could be reasonably satisfied with the progress of its industrial agreements during the past twelve months—the shorter working week was now an accomplished fact in the health services, local authorities, steel, gas and electricity supply, building, stone and other associated industries; it would come into effect in October next.

'The way is now open for a further advance to a 40-hour week,' continued the President, 'and we do not intend to wait another forty years as we did for the reduction from 44 to 42 hours a week.' On the wages question, and taking the years 1961 and 1962 together, the establishment of 5s. 6d. per hour Grade 'A' rate as from October compares more than favourably with settlements reached in any other major industry in the British Isles; indeed building was the only major industry in which consolidation of wage rates for a shorter working week and a substantial wage increase were negotiated in one package deal. He continued:

'Building trade labourers in particular have more than maintained their position relative to the craft rates. It may surprise you to know that in October of this year the basic rates for labourers in the building industry will be above those of skilled craftsmen in some other major industries which, to say the least, is quite an achievement.

### A Disturbing Feature

'The most disturbing feature in our agreements is still the lack of discipline and control relative to the operation of incentive schemes and, in this connection, as you may know, we have taken unilateral action and have published a "Guide to Incentives" which we hope will assist our stewards and members to grapple with this extremely difficult probem, particularly at site level. The employers, through their National Organisation, have repudiated the "Guide"; a rather pompous if not arrogant attitude, to say the least of it. For our part we have no intention of permitting the employers' organisations to dictate to us what type of service we give to our members from time to time. On the other hand, we have an open invitation to the employers (who after all claim managerial rights and have at their disposal the very cream of technical assistants in the industry) to sit down with us and jointly reach an agreement on the whole question of incentives.

'What we do insist is that sooner or later the weekly earnings of our members must be controlled by some recognised and rational agreement, and this certainly is not the case at the present moment when the whole question of incentives is the subject of haggling from day to day and from site to site.

'However, despite the advances made and the service provided by the Union, only by the most determined, almost desperate, efforts have we been able to avoid serious loss of membership; indeed, like "Alice in Wonderland," we have run as fast as we can in order to stay in the same place.'

But along with putting its own house in order, the AUBTW must show greater determination in making the employers face up to their responsibilities in this matter of trade union recognition, Mr. Weaver continued. His own view was that to-day the shop steward was the most important link in the chain of trade union structure and, as such, must be recognised in joint agreements and be given the status and protection that came from official recognition.

### Need for Co-operation with Employers

'I hold firmly to the opinion that in this day and age the employers must show a greater readiness to co-operate with us in ensuring that a larger percentage of workers accept their responsibility to pay their contributions to maintain the machinery which operates to the benefit not only of trade unionists, but to all workers in the industry. Co-operation with the employers in the future must be based upon full recognition and acceptance of each other's role as an essential part of our industrial democracy,' said the President.

'Whilst we have certain problems in our relationships with the employers, we are reaching a stage when it can be truly said that the trade union movement is its own worst enemy. The British trade union movement as it is constituted today is a veritable jungle. Competition between unions for negotiating rights and membership gives rise to petty jealousies, rivalries, demarcation disputes and poaching disputes of such viciousness that struggles with the employers appear tame by comparison.

### 'Quarrelsome Beggars'

'The multiplicity of unions demanding negotiating rights in the same industries makes it wellnigh impossible to develop and co-ordinate long-term policy for improved wage standards and working conditions and in dealing with the problems of new techniques and redundancy. Stumbling from one expediency to another, negotiators in some industries oft times appear as a ragged procession of quarrelsome beggars who cannot agree on the division of the spoils. In these circumstances it is not surprising that the shop stewards sometimes decide to take matters into their own hands and establish a co-ordination of effort and unity of purpose which the official trade union machinery seems incapable of achieving. It is even less surprising that millions of workers who ought to be in the trade union movement display complete indifference or downright opposition.'

Mr. Weaver continued: 'For years we have been criticising the employers for their inefficiency; for years we have been offering advice to successive Governments on economic and financial policy; for years we have been telling the Labour Party how to run its business. Faced with the stark realities of life, with falling membership and financial stringency in the longest period of full employment ever known in history, the trade union movement is facing a crisis of survival.

'The General Council of the TUC must be given greater authority, and powers to effect rationalisation of trade union structure and administration. On the other hand, the TUC General Council must shed some of its vested interest and bring into the work of the TUC the experience and knowledge of many able trade union leaders who, by the accident of the block vote and the distribution of seats on the General Council, are denied the opportunity of playing their part in the development of national trade union affairs in this country. Unless there is a dramatic change in the outlook of the leadership of the trade union movement on this question of trade union methods and structure the present day trade union leadership will find that their role in the historical development of the British trade union movement is to act in the capacity of grave-diggers.'

### Two Conflicting Agreements

In the building industry we seemed fortunate that the NFBTO was accepted as the co-ordinator for all the building unions in negotiations with the building employers; nevertheless, a major problem arose in the existence of two conflicting agreements covering the same group of workers—the NJC for the Building Industry and the Civil Engineering Conciliation Board. These two negotiating bodies, providing as they did for differing working hours and overtime rates, often in operation on the same site, caused confusion and must result in an unsettled industrial climate.

'You may be aware that shortly the Government is to replace the existing Building Regulations with one set of regulations covering both building and civil engineering work, to be called the Construction Regulations,' said Mr. Weaver. 'The industry should take a cue from the Government and produce a Constructional Industry Agreement which would codify and unify the major aspects of our conditions on all sites, irrespective of whether the work is building or civil engineering. We must make this one of our major tasks in the immediate future.'

# Tendering for Local Authority Contracts

## Portsmouth Builders' President Replies to Critics

FROM OUR LOCAL GOVERNMENT CORRESPONDENTS

A DISCUSSION at an April meeting of Portsmouth City Council's health and housing committee as to why national building contractors 'did not bother' to tender for corporation contracts has evoked a reply from MR. KENNETH PRIVETT, the president of Portsmouth Builders' Association.

As reported in 'The Builder' of April 21, the committee instructed the city architect to write to a number of national firms to inquire the reasons why they were abstaining from tendering. Some members suggested that the apprenticeship clause in the corporation contracts had a limiting effect on tenders from outside the city, and more or less gave a monopoly of house building to local builders. Others thought that the big companies did not tender because they were overloaded with work.

In a lengthy letter read to members of the committee, Mr. Privett expressed the Association's concern at the discussions. Many of the statements were made without knowledge of all the factors involved, he said, and were misleading to those without experience of the technicalities of the building industry. Portsmouth was not alone in the problem of receiving a small number of tenders for corporation work. The same situation applied in areas where the apprenticeship clause was not included in the local authority contracts.

'National contractors,' he continued, 'would almost certainly not be precluded from tendering for your work as the majority of them are known to employ large numbers of apprentices, although their special problems prevent them from employing trainees in all localities. We should be sorry to see the apprenticeship clause deleted from your contracts because we are sure that it is not only beneficial to the building trade that boys should be thus employed, but it also assists your corporation to fulfil its obligations in regard to further education and youth employment in the city.'

After agreeing that the building trade was 'heavily laden with work,' Mr. Privett said that members of his association considered one of the main disadvantages of corporation tenders was the adherence to the clause which required 'firm prices.'

'In these uncertain times, it is asking a great deal of anyone to commit themselves to firm estimates over a period of up to two years, when there is a possibility of increases in wages and materials, due not only to the rise in the cost of living, but also to acute shortages of labour—factors over which a contractor has no control. Where the opportunity occurs, a contractor would naturally prefer to tender for a contract where he does not have to take these additional risks.'

Mr. Privett refuted the suggestion that building work was carried out in the neighbouring areas cheaper and quicker. He concluded: 'Members of my association realise the difficulty with which you are faced and have given me their assurance that they will tender for local authority work whenever possible, but, at the same time, they trust that your committees in their appraisal of present tendering conditions will give due consideration to the points I have raised in this letter.'

ALD. F. MILES, the committee chairman, said that the city architect had investigated the problem so far as the apprenticeship clause was concerned, and had found that it made very little difference to national contractors tendering for local building.

As regards the question of fixed price tendering, he said, the committee considered this was 'a wide subject,' and agreed that it should be referred to the finance and general purposes committee.

### Berkshire to Continue Selective Tendering for School Building

FOLLOWING a report by the education committee, Berkshire county council is to continue, save in a few cases, its policy of selective tendering for education building projects.

The committee says that as far as can be ascertained the majority of local authorities invite tenders by public advertisement for their building works. Where this has been done the response has been very poor indeed in Berkshire, and it is understood that this also applies to the adjacent counties. In order to achieve competition it is invariably necessary to approach firms who have not replied to the advertisements.

Over a period of years, the position in regard to tendering has been unsatisfactory, and about 1953, the RIBA set up a committee, under Sir Howard Robertson, to consider the question. This committee recommended that local authorities and others would be well advised to substitute selective tendering for the more general practice of public invitation.

Following on an unfortunate experience in 1953, it has been usual for Berkshire education committee to invite tenders from selected firms, the report states.

It emphasises that firms capable of carrying out contracts should possess: (a) Financial stability; (b) suitable organisation; (c) capable staff and men; and in putting forward names for invitation only firms which seem able to comply with these conditions are included. The use of selected firms reduces costs within the department, especially in regard to site supervision. It also encourages firms to be efficient, for they know they may not continue to receive invitations.

Lists are not confined to the same contractors, and care is taken to introduce new names, including a number from outside the county, to ensure competition.

The committee says it is considered to be in the council's interests generally to continue with selective tendering, but suggests that public advertisements might well be of value in the case of the smaller contracts and where the difficulty of obtaining sufficient suitable tenderers is evident.

As a result, it has been decided that tenders for five building projects in the 1961/62 programme, estimated at not more than £10,000 each, will be obtained by public advertisement.

# High Building Costs

*Concern of Hampshire County Council*

HIGH BUILDING COSTS are causing Hampshire County Council much concern. At a recent council meeting one member, MR. T. H. LOWNDES, said that unless some action was taken prices would rise to such an extent that the building programme would be brought to a standstill.

The County Council was discussing the cost of building two police houses at Lyndhurst. In June, 1960, it was estimated that the cost would be £5,400. When the project was put out to tender, the lowest received was one of £6,605. Similarly, for two firemen's houses at Lyndhurst, the lowest tender was one of £5,770, whereas the estimate was £4,627.

'I refuse to believe,' said another member, MR. E. NEATE, 'that building and labour costs have increased by 20 per cent in the last nine months. There has been no dramatic increase in interest rates; this matter is serious.' 'The building industry in the county is overloaded,' said MAJOR COLIN ZEIGLER. 'In effect, the ratepayers in one capacity are bidding against the ratepayers in another. Could not some form of rationing be devised to help keep costs down?'

MR. LOWNDES told the Council that prices quoted to him by a Hampshire builder and a Bristol builder for building a house had varied considerably. The Bristol price was much lower. He suggested that action should be taken in conjunction with district councils to see if they could influence costs. The discussion ended with an assurance from the chairman, MR. ALAN LUBBOCK, that the finance committee would go into the matter and report to the full Council.

# Loans to Local Authorities

*Changes in Interest Rates*

THE Ministry of Housing and Local Government announces that the following rates of interest shall apply to all loans advanced to local authorities, as defined in Section 10 of the Local Authorities Loans Act, 1945, from the Local Loans Fund on and after June 3, 1961:

| | |
|---|---|
| Loans for not more than 5 years | 6⅛ per cent |
| Loans for more than 5 years but not more than 15 years ... | 6⅛ per cent |
| Loans for more than 15 years but not more than 30 years ... | 6¼ per cent |
| Loans for more than 30 years | 6¼ per cent |

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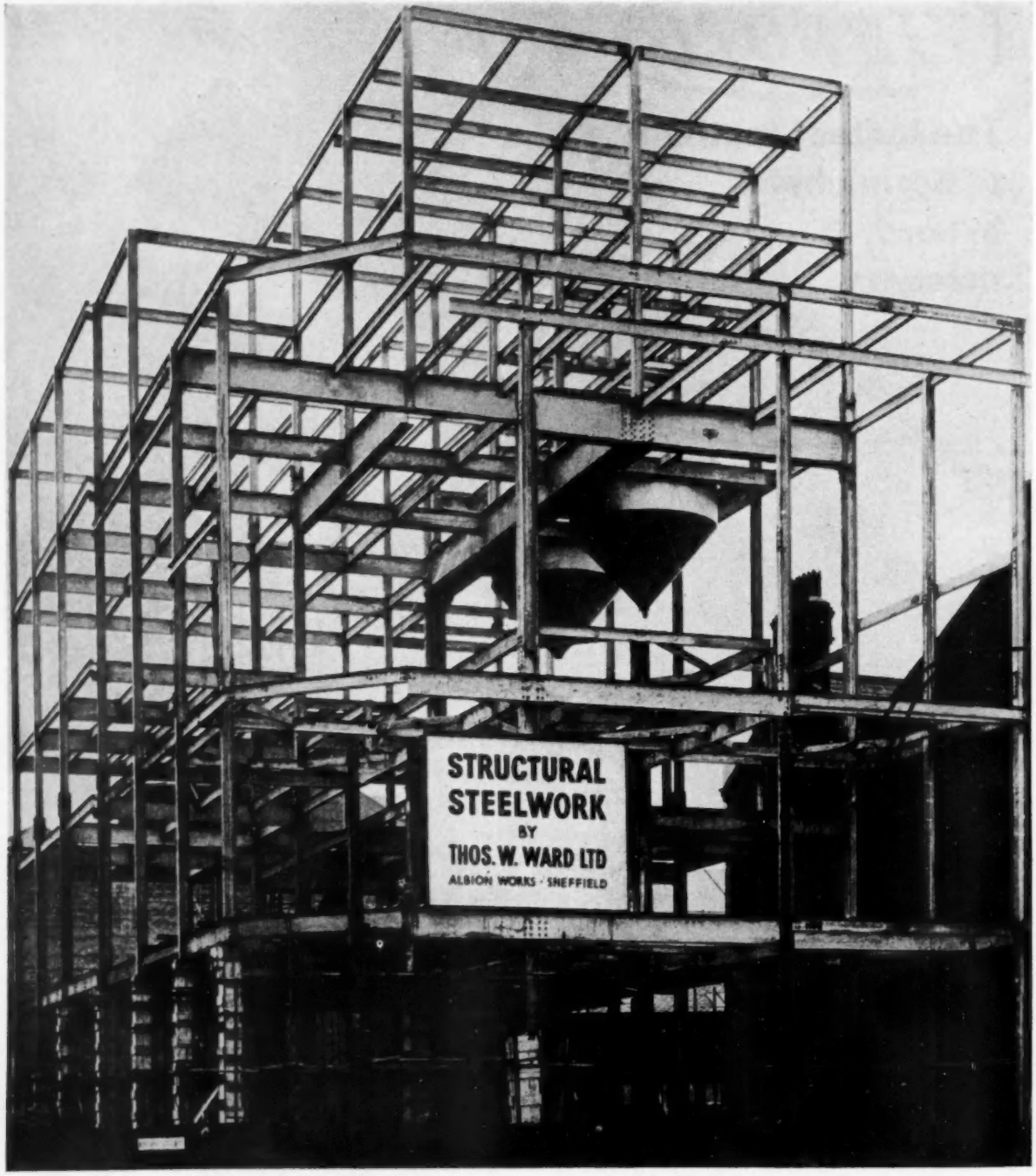


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# The Week in Parliament

From Our Own Correspondent

## Sessional Plans

PARLIAMENT reassembled on May 30 after the short Whitsun recess and on June 1 the Standing Committee of MPs debating the details of the Housing Bill resumed their labours on the part of it containing powers for local authorities to deal with multi-occupation.

At the last sitting before the recess, MR. HENRY BROOKE, Minister of Housing and Local Government, commented that he was disappointed that it now seemed unlikely that local authorities would be armed with the powers by August but more likely by the autumn. He was doubting if the Bill would complete its passage through both Houses before the long summer recess.

Labour members of the committee naturally concluded the Minister was blaming them for the likely delay, and there were some angry exchanges. But while it can be fairly said that some Labour members of the Standing Committee have been long winded, for the Government to have hoped that this major Bill would be completed in four months including two recesses, was expecting far too much, especially bearing in mind the already heavy legislative programme.

The problem of multi-occupation is growing worse and Conservative MPs campaigning for the end of the free-for-all entry of immigrants especially from the West Indies, are pointing to the housing situation as one of their key arguments. What seems likely to happen is that the remaining stages of the Bill—those in the Lords—will be taken in the autumn before the start of the new session. The other provisions of the Bill will not be badly affected by any delay.

It is thought that Parliament will resume earlier in October to complete any Bills outstanding that the Government want to have on the Statute Book. But in the main the Government have only themselves to blame. There has been far too much legislation this session and the politically contentious nature of some of it has eaten up time. On the next occasion that Mr. Brooke has a housing Bill it should be heralded in the Queen's Speech at the beginning of a session and introduced earlier.

## Apprenticeships

WHEN THE COMMONS turned attention to apprenticeships and training in industry on May 31, MR. JOHN HARE, Minister of Labour, appealed to every MP to use his or her influence in every constituency to make clear to employers and trade unions the need to take a fresh look at training, to put aside out-of-date attitudes and to think in terms of what was relevant to the second half of the 20th century.

In the course of a constructive debate several MPs brought to bear their expert knowledge of conditions in certain industries and there was a useful contribution by MR. ALBERT COSTAIN who drew attention to conditions in the building industry which, he maintained, rather typified the problem they were debating because it contained a large number of small firms and a small number of large firms.

The larger firms, he explained, were able and willing to get down to apprenticeship schemes and MPs would be amazed at the amount of trouble in training, not only of the apprentices but of the officers who were to train them, that was undertaken.

Progress in the building industry had been very slow in the past but it was now very great. In the Institute of Builders there was a course open to tradesmen and apprentices. They were raising their status and giving them a desire to better themselves. They were giving them professional status. In the same way they had considered whether they should shorten the period of apprenticeship. There was a good argument for cutting it down by one year, especially in view of mechanisation. That itself was creating a further problem in the building industry because its introduction in respect of many operations had meant that their horse-power per man was rising each year and with it efficiency. That brought with it the problem of training mechanical engineers.

A national effort was needed. They could start a scheme in which each firm agreeing to day release—and he accepted that that was probably the right approach—could be allowed to make this fact known by means of a symbol on its notepaper. They could also consider giving preference, everything else being equal, to such firms in respect of Government contracts.

MR. JAMES BOYDEN recalled that the Carr Report had stated that one of the great difficulties was the shortage of building resources. This was a comment on the Government's policy of first a boom, then a slump and then a boom again so that it was quite impossible for the building industry to plan efficiently in producing the apprentices it needed. There was bitter complaint in the Industrial Training Council's report that apprenticeship schemes were not developed as they should be. It was not only that but also that the building industry had been so badly mismanaged in relation to the nation's needs.

The debate was opened for the Opposition by their Labour spokesman, MR. F. LEE, who advocated a national apprenticeship council. He thought there should be national and regional councils for industries like engineering and building and other large users of skilled labour.

The MINISTER (Mr. Hare) said that compared with a year ago there had been a rapid reduction in the numbers of unemployed and a marked increase in the number of vacancies, particularly for boys. The total number of boys who got apprenticeships or learnerships in 1960 was 103,000. In the last two years the figure had risen by more than 10 per cent. There had also been an encouraging increase in the amount of training at levels above craft apprenticeships. Industry was taking an increasing interest in the training of the non-apprentice. The real testing time was immediately ahead. He felt sure that the time had come for industry to have a fresh look at the content and methods of training. There were encouraging signs that leaders on both sides of industry were becoming increasingly aware of the desirability and urgency of this.

## Central Redevelopment

INDICATIONS that the Minister of Housing and Local Government was studying central redevelopment in conjunction with Ministers most directly concerned in order to provide guidance to local authorities were given by SIR KEITH JOSEPH, Parliamentary Secretary, Ministry of Housing and Local Government, in reply to questions on May 30.

SIR KEITH stressed that local authorities were constantly consulting the department and were therefore receiving guidance continuously. But Mr. Brooke had in mind more formal methods of guidance in due course when these consultations were complete.

MRS. JOYCE BUTLER, one of London's Labour MPs, asked what action the Minister proposed to take to assist local authorities in the capital expenditure involved in comprehensive urban renewal, and SIR KEITH replied that the Minister was not clear that local authorities should require any assistance for this purpose over and above that given.

MRS. BUTLER contended that many schemes would neither be comprehensive nor satisfactory from the traffic and social planning points of view as they should be unless local authorities had financial help with the initial acquisition and development of these schemes. Had the Minister yet examined the possibility of making loans available with the payment of interest suspended for the initial period?

SIR KEITH said the taxpayer was already providing considerable help for comprehensive development through the general grant and through assistance to housing, particularly where sites were expensive, and by way of a contribution to classified roads. In addition, local authorities could expect to get a good price from letting the bulk of the development put up in comprehensive redevelopment.

However, the Minister was considering the whole of this complex matter. 'I did not mention the question of deferring interest because I did not think that, although it might be helpful in many cases, it was the sort of assistance which Mrs. Butler had in mind,' he added.

MR. W. DEEDES, a former Parliamentary Secretary at the Ministry of Housing, said that finance apart, there was overwhelming evidence for the need for more guidance by a number of local authorities.

MR. MACCOLL said that even if the Minister did not appreciate that local authorities needed assistance, the Civic Trust did. One of the problems was that

if a local authority was to plan redevelopment prudently it must lock up its resources for a long time and therefore it needed assistance.

SIR KEITH: 'The ideas of the Civic Trust in this field are particularly being studied by the Minister.'

## Other Business

### Crown Land in Green Belt Areas

MR. BIGGS-DAVISON asked the Minister of Housing and Local Government on May 18 to what extent under his regulations Crown Land within a Green Belt was subject to different planning considerations from other such land.

MR. BROOKE wrote: 'Crown land is not subject to planning control, but the same planning considerations are taken into account in the case of Crown development in a green belt as in the case of comparable private development.'

### Office Building in the London Area

MR. DOUGLAS JAY asked the Minister of Housing and Local Government on May 30 what steps the Government were taking to limit new office building in Greater London; and whether he would state the total of new office space in square feet built in the London and south-eastern region in 1958, 1959, and 1960.

SIR KEITH JOSEPH, Parliamentary Secretary, wrote: 'This is mainly a central area rather than a Greater London problem. It is the policy of the local planning authorities and of the Government to check expansion in the central area by restricting the areas zoned for offices and the size to which offices can be built. Firms are also encouraged to move to new or expanding towns. The LCC estimate that new office space built in the central area of the County of London in 1958, 1959 and 1960 was approximately 4,800,000, 5,500,000 and 5,400,000 sq. feet respectively. I regret that no figures are available for other areas.'

### Public Inquiries in 1960

MR. MARCUS KIMBALL asked the Minister of Housing and Local Government on May 30 how many public inquiries were held by his department in 1960; and in how many of these he decided in favour of the reports submitted to him by his inspectors.

SIR KEITH JOSEPH, Parliamentary Secretary, wrote: About 6,500 public inquiries were held in 1960 and the Minister accepted his inspectors' recommendation in about 93 per cent of the cases decided. The remaining 7 per cent includes cases where he differed from the Inspector only in matters of detail.'

### London Government Representations

MRS. JOYCE BUTLER asked the Minister of Housing and Local Government on May 30 how many local authorities had now made representations to him with regard to the report of the Royal Commission on Local Government in Greater London; and what had been his replies.

SIR KEITH JOSEPH, Parliamentary Secretary: '123 local authorities have made representations. They have been told that their views will be taken into account in the Government's consideration of the Royal Commission's report.'

### Immigrant's Housing

SIR WILLIAM ROBSON-BROWN asked the Home Secretary on May 30 whether, having regard to the unsatisfactory housing conditions to which West Indian immigrants were being subjected, both with regard to overcrowding and rent exploitation, he would now restrict the intake of immigrants to those with a labour permit proving that they had a guarantee of employment and also reasonable housing accommodation; and whether he would apply such restrictions until he had had an opportunity of a full investigation into the whole problem, in the interests of intending immigrants.

MR. R. A. BUTLER wrote: 'These matters are all being considered, but I am not at present in a position to make a statement.'

### Little Buckswood Farm, Crawley

MR. FREDERICK GOUGH asked the Minister of Housing and Local Government to state the price paid to Mr. James Lee in 1957 by the Crawley Development Corporation in respect of 174 acres of property known as the Little Buckswood Farm; what had been the cost of developing this land since that date; what was the price obtained for it when it was recently sold for building purposes by the Development Corporation; and if he would make a statement about the size of the profit made.

SIR KEITH JOSEPH, Parliamentary Secretary: 'When Mr. Lee served a notice on the Corporation requiring them to buy all his land, they paid him £13,500 for the freehold of 179 acres plus £711 for loss of crops, tenant right and other disturbance. The combined cost to the Corporation of buying and developing this particular area is estimated at about £4,500 per acre.

'The Minister does not think it right to disclose the price paid by a private builder for the 31 acres recently sold by the Corporation because he thinks the builder is entitled to regard this as confidential. I can, however, say that the element of profit to the Corporation was very modest.'

### Rating and Valuation Bill

The Rating and Valuation Bill was read a second time in the Lords on May 31.

# Local Government in West Midlands

## Five All-purpose Authorities Proposed for Black Country

RECOMMENDATIONS for five all-purpose authorities of county borough status for the Black Country, boundary changes for Birmingham, Coventry, Stoke-on-Trent and Staffordshire and changes in the status of Burton upon Trent and Worcester that have been submitted to the Minister of Housing and Local Government were published on June 5. The Minister is now inviting comments on these proposals. If there are objections, public local inquiries will follow. At this stage the Minister has formed no view on what changes, if any, he will ultimately propose to Parliament.

The proposals are contained in two reports by the Local Government Commission for England on the West Midlands Special Review Area, consisting of Birmingham and the Black Country, and the West Midlands General Review Area, covering the rest of the five surrounding counties (Herefordshire, Shropshire, Staffordshire, Warwickshire and Worcestershire).

The Commission's main proposals for the Special Review Area are directed to the reorganisation of local government in the Black Country. In place of the present arrangements, which the Commission say are complex and difficult for the public to understand, they propose that all local government functions should be entrusted to five all-purpose authorities of county borough status. The Commission propose that the present authorities should be regrouped to form five county boroughs, each one to include an existing county borough:

Dudley county borough is grouped with Brierley Hill urban district and most of Sedgley and part of Coseley and Amblecote urban districts;

Smethwick county borough is grouped with Oldbury and Rowley Regis boroughs and part of Halesowen borough;

West Bromwich county borough is grouped with Tipton and Wednesbury boroughs and part of Coseley urban district;

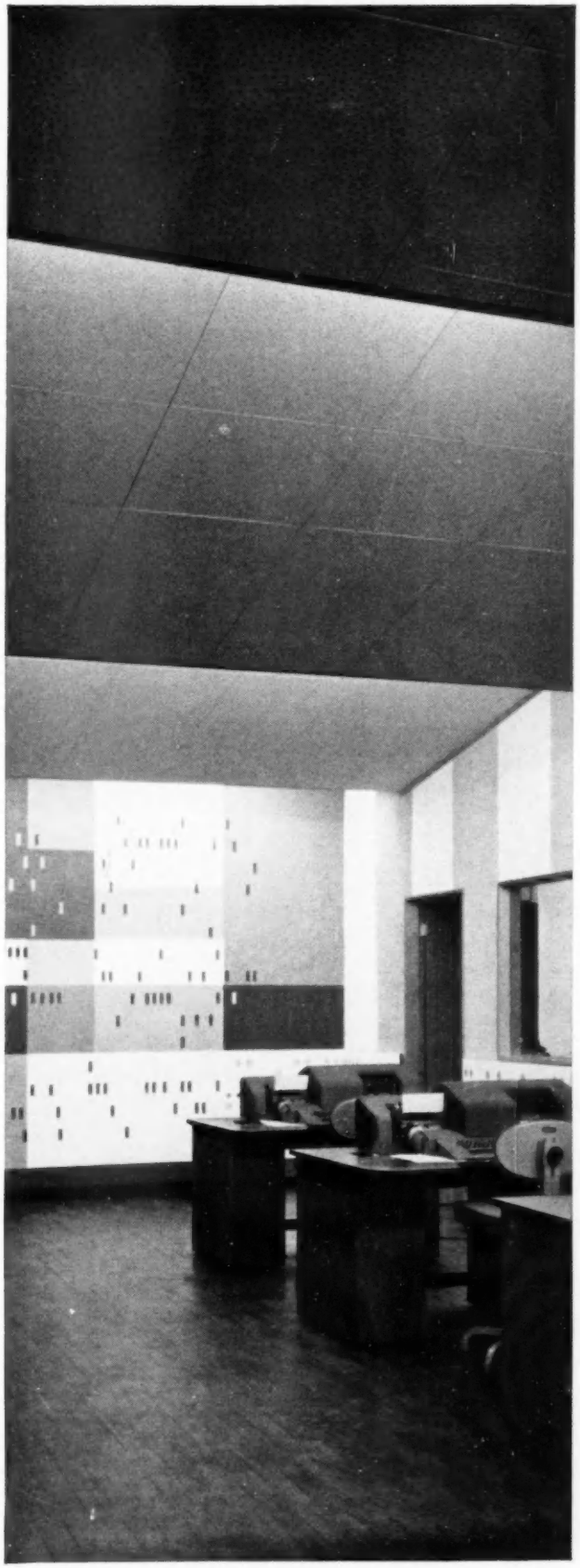
Walsall county borough is grouped with Darlaston urban district, most of Willenhall urban district and part of Wednesbury borough;

Wolverhampton county borough is grouped with Bilston Borough, Wednesfield urban district and part of Coseley, Sedgley, Tettenhall and Willenhall urban districts.

This, say the Commission, would be a simple and natural structure, more convenient for the public and the councillor and better able to meet the present and future needs of local government services.

The only changes proposed for Birmingham are minor boundary alterations. The Commission's draft proposals published in March, 1960, included changes for the Quinton and Perry Barr areas of the city, but these and some other features of the draft proposals have now been dropped.

The Commission's chief recommendations for the West Midlands General Review Area are that Burton upon Trent and Worcester County Boroughs should both become non-county boroughs, and that Coventry and Stoke-on-Trent county boroughs should have limited extensions, mainly at a number of points where suburban development straddles existing boundaries. The only other substantial county boundary change suggested is the transfer of most of Tamworth Rural District from Warwickshire to Staffordshire.



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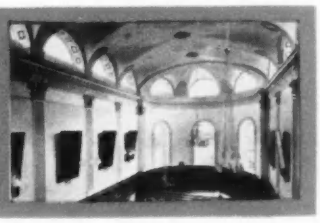

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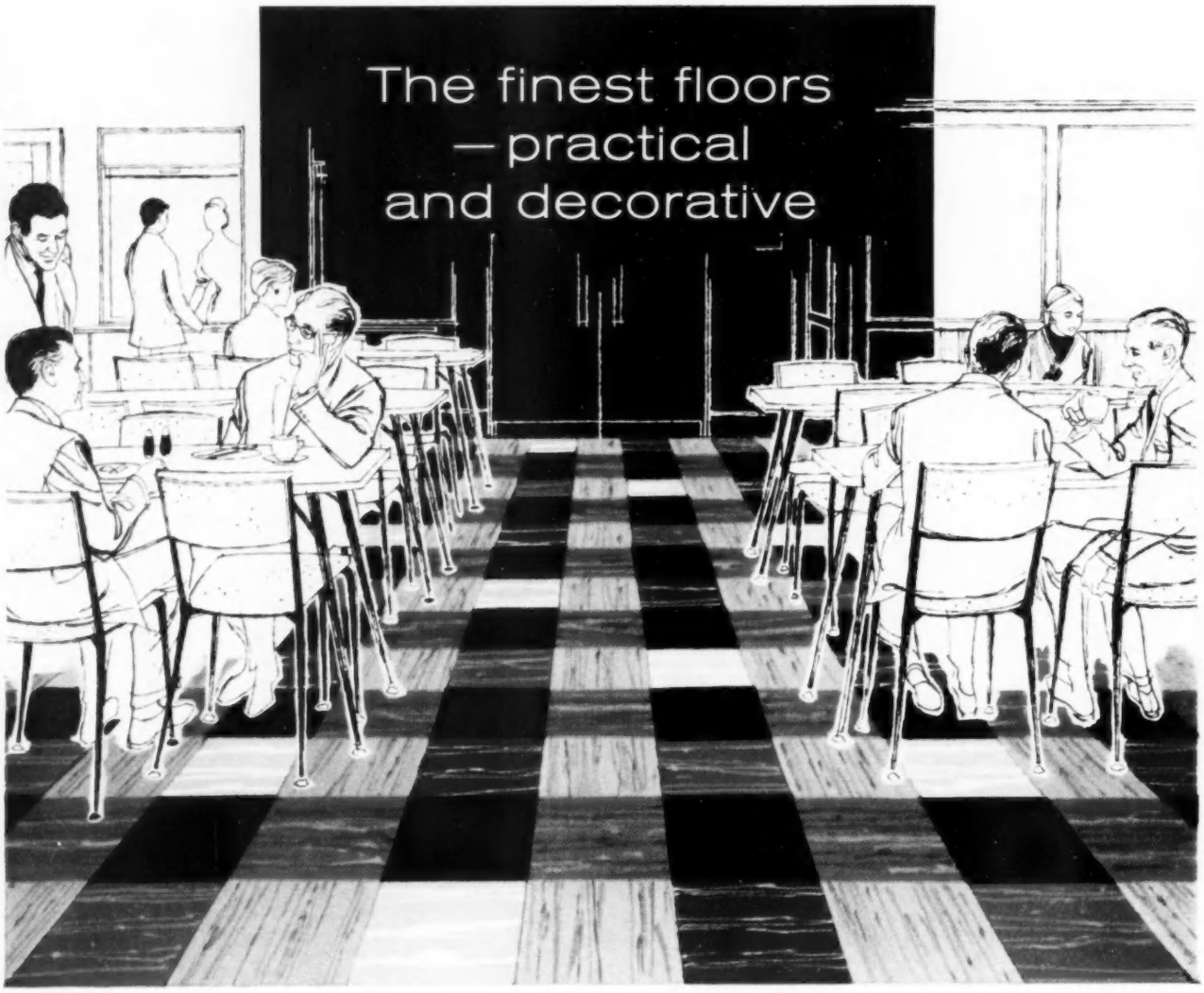


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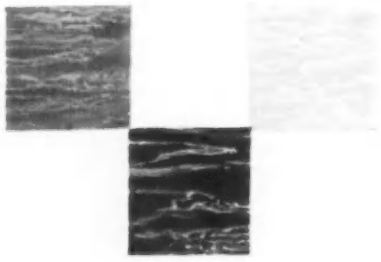

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## Earthmoving Equipment

THE THREE UK companies of the AVELING-BARFORD GROUP of Grantham are showing, on a combined stand, a comprehensive cross section of their roadmaking, earthmoving and quarrying equipment, similar to that on show at the Public Works Exhibition, last November. Since its first appearance at Olympia last year, the TS 250 tractor shovel has been modified to increase bucket capacity from 2½ cu. yd. to 2¾ cu. yd. and it is one of the first tractor shovels in the world to be equipped with disc brakes on all four wheels.

Heading the display of off-highway tipping vehicles, the SN 30-ton dumper embodies the 450 bhp Rolls-Royce turbocharged 8-cylinder diesel engine and the Allison torqmatic transmission. A new feature of the SN is its single skin body, fabricated entirely from 'T1' steel, having a 50-tons yield point, to give greater strength with less weight. External reinforcement is given by folded channel ribs, of the same 'T1' steel, that also act as ducts for the exhaust gases when the optional exhaust coupling is fitted for body heating. (Stand A92.)

CALEDONIAN MECHANICAL HANDLING CO. LTD., of 21 Old Castle-road, Glasgow, S4, is exhibiting two loaders, the AL502 which is designed for installation to tractors of 2½ tons upwards, and the AL602, a heavier loader than the 502, designed for use on a 3-ton tractor. On this model the jib can be hydraulically extended in order to obtain a longer reach and greater height of lift. A variety of buckets and grabs is available and a crane hook can be fitted should the loader be required as a mobile crane. 16 hp is necessary to operate the pumps and the loader will lift 2,100 lb. at shortest jib length and 1,550 lb. at longest jib length of 13 ft. 1 in. A wagon loader version is available which is particularly suited to unloading coal wagons. On this application the twin hydraulic pumps combine to make an extremely fast cycle time and give a claimed production of 60 tons per hour. They are also showing a lorry loader which can be mounted on either a fixed platform or tipping lorry. (Stands C20 and PG75.)

THE CATERPILLAR TRACTOR CO. LTD. of Glasgow is showing several new machines to the public for the first time. Two of the most interesting are the D9G tractor and the 619C tractor-scraper. The 385 hp D9G tractor is 15 per cent more powerful than its predecessor and is the largest of Caterpillar's current track-type tractor range. Designed for high production bulldozing, push-loading and ripping operations, the tractor can be seen on the demonstration area fitted with a No. 9S bulldozer and a D89A Hyster towing winch. Also on the demonstration area is the 619C wheel tractor-scraper, a new two-axle scraper with 18 cu. yd. heaped capacity. The 619C features optional power shift or direct drive transmission, and has a maximum horsepower of 280 with a top speed of over 30 mph to guarantee low cost-per-yard earthmoving. (Stands D80 and PG115.)

A COMPREHENSIVE SELECTION of machines from the Loadmaster range of CHASESIDE ENGINEERING CO. LTD., of Hertford, are on view as part of the static display and can also be seen at work on a proving ground opposite. Two-wheel drive loading shovels, such as Loadmasters 700, 750 and 800, with conventional or automatic transmission are included as well as machines from the 4-wheel drive range. These include the 150 hp Loadmaster 3000 and the technically advanced Loadmaster 1000, which has a performance comparable to much larger 4-wheel drive machines. (Stands D4 and PG29.)

THE NEW SCAMMELL 'Himalayan' dump truck can be seen on the stand of R. CRIPPS AND CO. LTD. of Lenton, Nottingham. It is powered by the new Leyland P680 diesel engine of 11.1 litres which develops 200 hp at 2,200 rpm. A 6-speed constant-mesh gearbox includes a forward crawler gear and two useful reverse speeds. It is specially designed for prolonged heavy-duty performance and incorporates strong gear trains with extra wide, hardened gear wheels. A four-wheel drive twin axle rear bogie, featuring epicyclic second reductions in hubs, is mounted on an inverted leaf-spring suspension, with axle stabilisers. Giving an effective ground clearance, this arrangement also ensures positive ground grip under adverse site conditions with payloads of 18 tons.

Conventional in design, the all-steel 12-14 cu. yd. scow-ended body is fully reinforced to withstand shock loading of all materials, and incorporates a floor of sandwich construction, with replaceable steel wearing plates and generous cab protection. A twin-ram, link-type underbody tipping gear provides a 70° angle

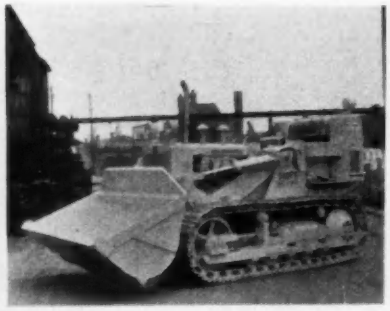
*A Chaseside 2-wheel drive 'Loadmaster' feeding a concrete mixing plant*

of tip in 10 seconds, with fully controlled power discharge-cycle. (Stand B14.)

COUNTY COMMERCIAL CARS (SALES) LTD., of Fleet, Aldershot, Hants, are showing their County Fourdrive tractor equipped with Bray hydraulic angledozer. The tractor is suitable for working on two or more sites without the expense of additional transport. Heavy haulage can also be undertaken using the tractor as a towing vehicle. On road repairs or widening schemes, the Fourdrive can work without damage to the surface. A similar advantage is also obtained when clearing overburden on open cast coal. In addition the company are showing their County CD-50 tractor with angledozer. (Stand D10 and PG69.)

EUCLID (GREAT BRITAIN) LTD. of Motherwell, Lanarkshire, share a stand with their distributors in the United Kingdom, JOHN BLACKWOOD HODGE & CO. LTD. They are showing a range of rear dumps from 15 to 27 tons, motorised scrapers of 7, 14 and 24 yard capacity and the C-6 Crawler Tractor. On the proving ground the newer machinery, the TS-14 twin powered scraper and the C-6 crawler tractor, are at work. The scraper, of 280 hp has twin engines, one fore and one aft, driving all four wheels. In both front and rear the drive is through a Torqmatic drive giving full power on the go gear shift. All scraper operations, bowl, apron and ejector, are hydraulically and independently controlled. The cutting edge is of four identical sections each of which is independently adjustable and reversible. (Stands D82 and PG113.)

INTERNATIONAL HARVESTOR CO. OF GREAT BRITAIN LTD., 259 City-road, London, EC1 are showing such a wide range that they are giving an additional display of their heavier equipment at a nearby site. One of their exhibits which is on view for the first time is a new 60 hp 1¼ cu. yd. Drott International Skid-shovel for the recently introduced BTD 8 tractor. This features a one piece main carrying frame pin-mounted to the tractor chassis. This



*The new 1¼ cu. yd. Drott International Skid Shovel shows new styling*

pin-mounting arrangement, normally reversed for higher horsepowered machines, allows a high degree of flexibility not possible with a rigid mounting. Lift to maximum height is 119 in. and maximum clearance, fully dumped, 92 in. (Stand D46 and PG123.)

J. D. TRACTORS LTD. of Maidenhead-rd., Windsor, Berks, are exhibiting the new John Deere-Lanz 40 horsepower 1010 crawler loader. This machine has a ⅞ cu. yd. bucket and several novel features including a new 40 horsepower 'oversquare' 4-cylinder diesel engine with a wide range of operating speeds, a new type of hydraulic direction reverser and a 'joystick' single lever giving fingertip control of all boom and bucket positions. The 1010 can also be seen fitted with the No. 51 Backhoe attachment. This attachment which can be fitted or detached to the rear of the loader in 15 minutes, has a digging depth of 13 ft. 6 in. with a choice of bucket widths from 12 in. to 38 in. Another useful feature of the No. 51 Backhoe is the ease with which it can be offset to either side or mounted centrally. Change of position can be carried out by the operator alone in 15 minutes. (Stands D20 and PG39.)

H. LEVERTON AND CO. LTD. of Gelderd-rd., Gildersome, Leeds, are exhibiting a range of Caterpillar tractors fitted with a variety of specialised attachments. They include a 955H Traxcavator with 1¾ cu. yd. side tip bucket attachment and No. 4 Ripper and a 922A rubber-tyred Traxcavator, fitted with a Libu three-way tip bucket. The Libu bucket is capable of tackling a wide range of jobs. The rated capacity of the bucket fitted to this machine, judged on free running, dry material is 1¼ cu. yd. Due to design detail no more spillage occurs even with the open ends than does with a standard bucket. This bucket is capable of digging and loading, bulldozing and transporting such loads as steel girders, pipes and lumber. It has also proved suitable for handling extremely sticky or very heavy material. The machine is also fitted with a tractor cab, designed and manufactured by Leverton at their works in Spalding. (Stand D72.)

MERTON ENGINEERING CO. LTD. of Faggs-rd., Feltham, Middlesex, are showing six of the latest of their range of hydraulic loading shovels with emphasis on a new 4-wheel drive machine. This is a hydraulic front loader, normally powered by a Ford 6-cylinder, water-cooled 80 hp diesel engine but now available also with the Deutz air-cooled engine which is a 4-cylinder engine, delivering 71 hp at 2,150 rpm. The machine is fitted with torque converter, power gear shift transmission, power assisted steering, planetary hub reduction in the axles and a 1½ cu. yd. SAE rated capacity bucket, with buckets available up to 2½ cu. yd. for light materials. It has a 4,000-lb. mobile lifting capacity with a crowd 'pry out' force of 10,000 lb. It has exceptionally good discharge height up to 12 ft. 8 in. with a good out-reach. Also seen is a 2-way loader with variable discharge at front and rear. (Stands C12 and PG35.)

A COMPLETELY NEW 3-cu. yd. capacity British-built excavator, the NCK-Rapier 1205, is being shown by NCK-RAPIER LTD., of 32 Victoria-st., London, SW1. The machine is designed to meet the increased international demand for stripping shovels. A special long range front end attachment will be available shortly with 50 ft. shovel boom, 36 ft. dipper stick, rope crowd mechanism and 2½ cu. yd. bucket. This attachment has a digging reach of over 65 ft. One of the features of the excavator is the fitment of automatic air release traction brakes, by means of which the brakes are always locked-on except when traction power is applied by the operator. This prevents runaway on slopes and improves digging efficiency. The machine cannot back away when working as a shovel and stops forward movement as a drag line. (Stand A60.)

A TRUCK CRANE, two self-propelled cranes, and two excavators are being shown by R. H. NEAL AND CO. LTD., of Grantham, Lincs. Two versions of the 1620 excavator can be seen, one equipped for crane operation with a 75 ft. boom and 15 ft. fly extension, the other with drag-shovel front end equipment. This model will be in action on the exhibition proving ground.

The NU 1620 is designed for use as a dragline, drag shovel, face shovel or crawler mounted crane with speedy conversion of front end attachments. Several exclusive features are embodied in this machine. Of particular interest are the 360° view cab, 'in-line' engine mounting, a one-piece unit cast gear case and the one-step gear reduction which obviates the use of chain drives. More even distribution of the loadings over the entire undercarriage frame is achieved by means of a patented ball

*The NCK-Rapier 1205 excavator with face shovel at work on an open-cast coal site*

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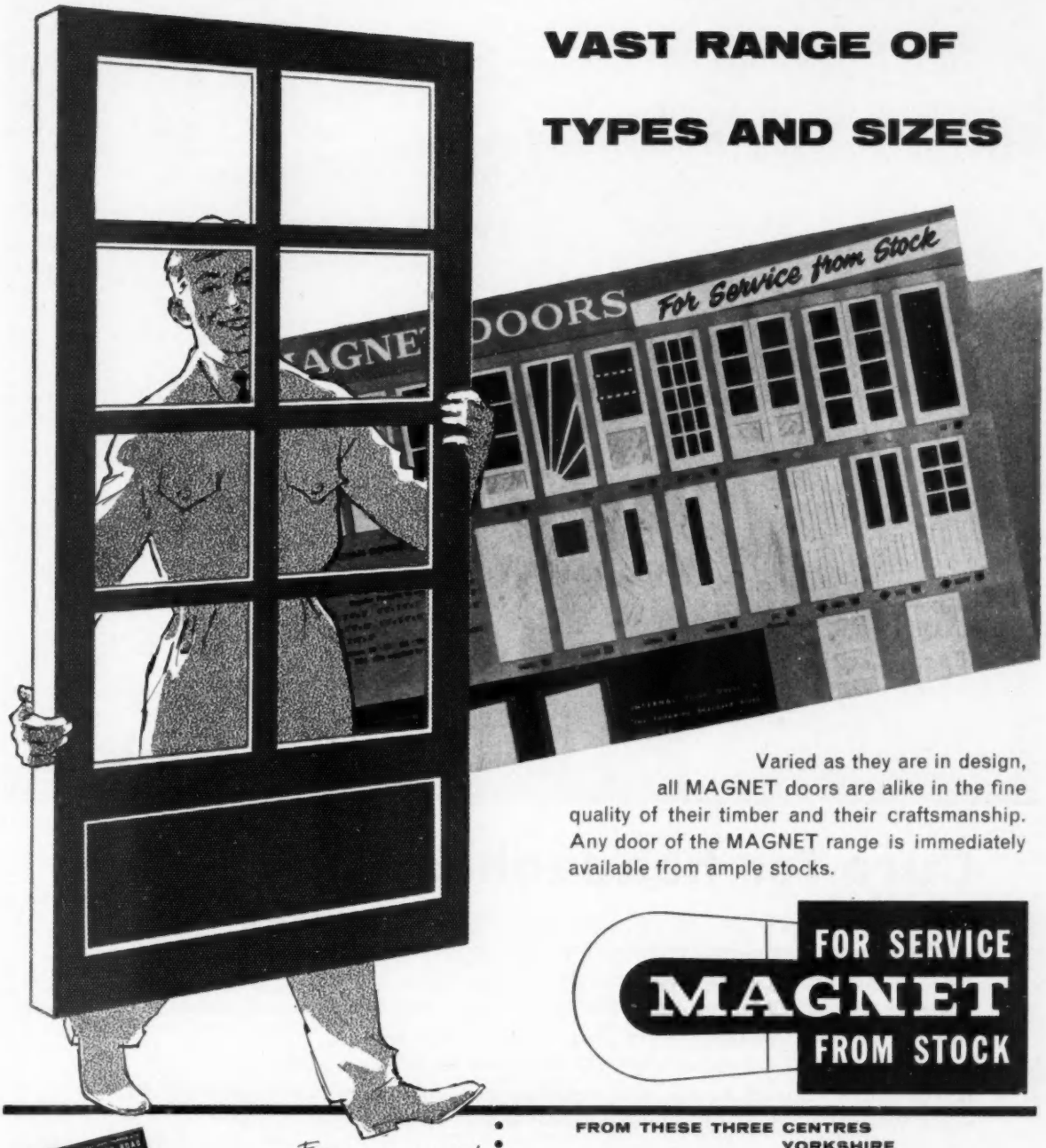


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bearing slewing ring. (Stands D68 and PG71.)

ON THEIR main stand, RUSTON-BUCYRUS LTD., of Lincoln, are showing their 30-RB cambered-boom type dragshovel with 3 ft. 6 in. wide hoe dipper. This air-control machine is crawler mounted and powered by Ruston 5YEN engine, 98 hp at 1,500 rpm. Also featured on the same stand is a working model of their 110-RB 4½ cu. yd. heavy duty mine and quarry shovel.

On the proving ground is demonstrated their 22-RB machine with Ruston 6YDAN air-cooled diesel engine. The front end of this machine is of novel design being a combined hoe/loader equipment with dipper 72 in. wide. The equipment known as the 'Two-in-one' is rope operated but has hydraulic ram assistance for boom hold-down and the welded steel scoop-type dipper has two cutting edges for operation either as hoe or front-end loader. Additionally, two wrist-action hydraulic rams assist hoe digging action and keep the dipper level when acting as loader or to prevent spillage when swinging to dump. (Stands D76 and PG63.)

H. A. SAUNDERS LTD., of 836-842 High-rd., London, N12, is exhibiting Bristol angledozers and the 'Europa' excavator with forward and overload and bulldozing attachment. Also on show is the Terrier hydraulic trenching equipment for mounting on the Bristol 'Duplex' and 'Europa.' This is capable of trenching to a depth of 12 ft. and to a width of 3 ft. (Stands D18 and PG47.)

A NUMBER OF MACHINES are being exhibited by SAVILLE (TRACTORS) LTD., of Stratford-on-Avon, including one of their latest additions—the BH 70 Hough Payloader. This is a rubber tyred 4-wheel drive shovel, powered by a Leyland 105 hp engine with three forward and five reverse speeds. Another exhibit is the BTD-20 crawler tractor which is powered by a 124 hp Rolls-Royce diesel engine and has fully reversible transmission, six forward and six reverse speeds. This machine is already operating on a large number of major contracts throughout the world. (Stand D44.)

THERE AXE TWO 'FIRST-TIMERS' among the equipment being shown by JACK OLDING & CO. LTD., of Hatfield, Herts. One is an asphalt batch plant with a capacity of 1,500 lb. and a three-section design for speedy erection; the other is a ditcher with a vertical boom. This is useful in city areas where the boom has frequently to be lifted over obstacles and, since it digs straight down, it leaves no ramp at the ends of a ditch to be dug by hand. Hydraulic rams raise and lower the boom which will dig 7 ft. and to a width of 2 ft. (Stands A22 and PG101.)

*A Neal NU1620 excavator equipped with face shovel working on the Doncaster By-pass*

ON ITS STAND, which is situated between the two proving grounds, SCOTTISH LAND DEVELOPMENT CORPORATION of 32 St. James's-st., London, SW1, is showing two models of the A.E.C. dumptruk, the new 18 cu. yd. and the 10 cu. yd. model. The larger earthmover, which stands more than 13 ft. above the ground, has a struck capacity of 18 cu. yd. but is capable of carrying 24 cu. yd. heaped. Dry, the dumptruk weighs 23½ tons. It can carry a payload of 25 tons, and is powered by the A.E.C. 340 bhp engine. The three-stage torque converter transmission ensures speed and efficiency under arduous site conditions. (Stand D56.)

SHAWNEE POOLE LTD. of Woodley, Reading, Berks, are showing and demonstrating their system of earthmoving haulage. The system effects 50 per cent economies in operating costs by harnessing a standard agricultural tractor to an articulated rear-dump hauler, and its gooseneck coupling gives 110 degrees of turn, resulting in a shorter turning circle than any other equipment of this kind. (Stands D40 and PG121.)

*The 'Hough' Payloader model BH 70 with 2 cu. yd. bucket exhibited by Saville (Tractors) Ltd.*

THOMAS SMITH & SONS (RODLEY) LTD. of Rodley, Leeds, is showing two diesel-driven universal excavators and one truck-mounted crane, of the two excavators, both crawler-mounted, one is of standard bucket 12 cu. ft. capacity and the other, the Smile '21' is being exhibited—fitted with ¾ cu. yd. heavy-duty, chain-crowd, face shovel. This machine is also convertible for operating as a dragline, skimmer, gooseneck, dragshovel, crane, grabcrane or piledriver. New type of 30 in.-wide multi-hinge crawler pads are fitted to this machine, which effect a marked reduction in track pin, track lug and tumbler wear. In addition to the above duties as an excavator the machine is ideally suited for precision crane work when fitted with the latest crane equipment which includes planetary power-lowering mechanism, a high-speed independent derrick unit and a swing brake which allows for three operations to be applied simultaneously, thus increasing the efficiency of the crane. (Stand A18.)

F. E. WEATHERILL LTD., of Tewin-rd, Welwyn Garden City, Herts, have on display a range of loading shovels from the large 4-wheel drive loader, type L.64, suitable for major highway contracts and quarrying, to the small industrial loader, type S.2, normally used inside buildings or where there is a limitation of operating space. On the proving ground they are demonstrating the popular site version of the 12H model as well as two machines in the 4-wheel drive class. (Stands D16 and PG 105)

TWO OF THE NEW Whitlock-Ransome range of small tracked earthmovers and loaders can be seen at the stand of WHITLOCK BROS. LTD., of Great Yeldham, Essex. The W/R track loader is excellent for climbing and turning in restricted spaces, for garden preparation work and for skimming and back-filling in narrow lanes and on roadside verges. The ground pressure exerted, being spread over the whole of the track area, is less than 5 lb. per. sq. in.

The economical single-cylinder o.h.v. air-cooled diesel power unit incorporates three reverse and three forward gears, with automatic clutch and live hydraulic control. Maximum discharge height for loading into lorries, trailers and dumpers, is 6 ft., and shovels are offered in three sizes with struck capacities of 3, 6 or 8 cu. ft. Rubber or hardwood swamp blocks are also available for working on soft ground.

The nippy W/R dumper, based on a similar tractive power unit, will handle loads up to 15 cu. ft. (heaped capacity) on gradients of one in three. (Stands D52 and PG117.)

## Dumpers

E. BOYDELL AND CO. LTD., of Elsinore-road, Old Trafford, Manchester, are showing a selection of dumpers and loaders from its Muir-Hill range. The new Winget Muir-Hill 4SR 30 cwt. rear-wheel drive dumper will be demonstrated on the exhibition proving ground. The Muir-Hill 2WL loader with 1 yd. full-width bucket and Sherman trencher attachment, the 7 cu. yd. Camill dump truck, the compact and highly manoeuvrable all-purpose 2X hydraulic loader with ¼, ½ and ¾ cu. yd. buckets, and the officially tested rear-wheel drive RD2 hydraulic loader with Brockhouse transmission, power-assisted steering and 1 yd. full-width bucket are also exhibited in action. The Winget Muir-Hill 3S 22½ cwt. concrete carrying dumper demonstrates a shuttle system between mixing plant and site, utilising detachable skips and ground frame. The sequence can be varied to suit requirements but it usually begins with an empty skip being lowered on to the dumper by crane. The dumper then travels to the mixing plant and returns the full skip into a ground frame at the discharge point. The crane unloads the skip and the dumper automatically takes up an empty skip from another ground frame. The Muir-Hill 14B concrete carrying dumper, which has a liquid capacity of 3 cu. yd., is shown as representative of a range of concrete carrying dumpers developed by Boydells. The standard Winget Muir-Hill 15 cwt. 2S Dumper is also displayed together

with the 6 cu. yd. 18B hydraulic quarry dumper and the 3 cu. yd. 10B dumper with gravity tipping body. Other Muir-Hill exhibits include the RD2 hydraulic loader with narrow ¾ cu. yd. quarry bucket; and the front-wheel drive FD2 hydraulic loader with Brockhouse transmission, power-assisted steering and 1 yd. full-width bucket. Both machines have 50° roll-back bucket action which combined with a pry-out force of 7,400 lbs. gives faster operation, bigger loads and reduced wear and tear. (Stand D58 and PG51.)

A WAKEFIELD SELF-LOADING DUMPER is shown for the first time by CONSTRUCTION MACHINERY LTD., Thornes Moor-road, Wakefield, Yorkshire. The dumper is a machine of almost unlimited applications and the method of operation is simple. The lift arms supporting the shovel are positioned on the outside of the body, with the shovel working beyond the tail-board. To load, the shovel is lowered, filled in the usual way and lifted so that the full load can be tipped into the rear portion of the body, subsequent loads being brought progressively towards the front, until the body is filled. The operator sits in a comfortable swivel seat and has duplicate controls. Thus he can load, swivel round and drive away without turning the vehicle. The dumper is a compact machine with 9 ft. 3 in. wheelbase, powered by a Leyland AU 350 diesel engine developing 100 hp at 2,200 rpm, and fitted with a 16 in. single dry plate clutch. There is constant mesh transmission with 5 high and 5 low gears, giving a total of 10 speeds forward and 10 speeds 'reverse,' from 2.13 mph to 32.6 mph. The loading bucket has a nominal capacity of 1 cu. yd., and the body a capacity of 5½ cu. yd. Drive is on all wheels and the two-way steering is power assisted. Air brakes are fitted to front and rear wheels. A powerful hydraulic system is employed; large capacity double acting rams are used for the lift arms, bucket movement and dumping. Body tipping is positively controlled through a linkage. The Wakefield batch concrete mixer, another new product, produces excellent and consistent quality mixed concrete. Power requirements are low, only 8½ hp. Cement consumption is low due to new patented mixing method. Rapid emptying of hopper and mixing drum, fast mixing time and new patented loading device (optional), enable this machine to achieve extremely high outputs. Its sturdy construction ensures low maintenance costs. It is easily transported, or towed on its pneumatic tyres, and quickly erected on site. The machine has a batch capacity of 7 cu. ft. of mixed concrete. Loading with an electric scraper gives an output of up to 530 cu. ft. per hour and, with special (optional) 'dosing' equipment, up to 710 cu. ft. per hour. A third new product is the Wakefield continuous flow concrete mixer, a 'forced-flow' mixer, equally suitable for small and large sites. Consistent concrete dosage is made possible, and controlled by a new and patented design. (Stand D66.)

*This 11-12 cu. yd. capacity dump truck is being exhibited by Fodens Ltd. of Sandbach, Cheshire (Stand A98)*

ROBERT HUDSON LTD., Raletrux House, Meadow-lane, Leeds, features the hydraulically operated 7 cu. yd. Leedsall dumper trailer which is distributed in the UK by Blackwood Hodge Ltd. This unit consists of a Fordson prime mover or similar tractor combined with a Hudson-built rear dumping trailer of exceptional strength. In addition to the stand display, the machine is being demonstrated on the proving ground in conjunction with Bray loading shovels and diggers. Compared with truck-type dumpers of the same capacity, this dumper-trailer provides a considerable saving in capital, running and maintenance costs. The steering is stable, loaded or empty, because of the weight distribution principles employed. The prime mover and dumper-trailer are coupled together by an unusual type of drawbar linkage which permits complete articulation in all directions with a 90° plus swing in either lock. The drawbar arrangement allows the tractor-trailer combination to articulate without lessening the individual stability of either unit and gives a turning circle of less than 30 ft. The rated capacity of the Leedsall is 20,000 lbs. and wet sand and gravel have been carried with recorded loads of up to 10 tons 7 cwt. Careful attention has been paid to the design of the body shape which has a high shear and eliminates the necessity for fixtures or side boards when a maximum load is being carried. The body, which has been designed for rough usage in all conditions, is in heavy gauge steel plate fabricated with reinforcement angles for rock carrying duties and welded throughout. It will withstand the effects of impact loading, remaining rigid when dumping or travelling. (Stand D32.)

C. H. JOHNSON (MACHINERY) LTD., Adswood, Stockport, Cheshire, is showing the full range of contractors' plant and, on the proving ground, is demonstrating dumpers and 'Trip-Skip' multi-skip handling equipment.

Machines exhibited include Johnson centrifugal and diaphragm pumps, the 'Super' and 'Maxtamp' power rammers and the range of Johnson dumpers. The full range of Johnson 'Multibrator' motor-in-head high-cycle poker vibrators, from 1 in. diameter to 3½ in. diameter, and prime movers, are shown, a new portable frequency converter for the first time. 'Hi-G' high-frequency flexible shaft vibrators are also displayed. On the proving ground a new 'Rotoplacer' hydraulically operated concrete placing dumper is demonstrated. This dumper has a concrete skip of entirely new conception, designed for very clean discharge of concrete at heights of up to 4 ft. above ground level, and a very simple slewing mechanism enables the discharge to take place through a semi-circle about the front end of the dumper and without the repositioning of pivots, etc. The high discharge height together with funnelling type of skip enables concrete to be placed either to the side or front of the dumper, not only into trenches and at ground level, but also into form work standing above ground level. It will also enable a hopper or concrete skip to be filled direct from the dumper. The equipment is designed to fit on to the standard Johnson 'Twin/65' dumper chassis and, if not required, the dumper can easily be converted back to the normal standard tipping skip or to Johnson 'Trip-skip.' (Stand A89.)

THWAITES ENGINEERING CO. LTD., of Cubbington, near Leamington Spa, Warwickshire, is exhibiting a 'Sprite' 15 cwt. dumper with a four-wheel gravity tip skip, having a 13 cu. ft. water level and a loading height of 36 in. This and the three other dumpers, 'Nimbus,' 'Orion' and 'Tusker,' are powered with Petter diesel engines. Another exhibit is a four-wheel two-way side discharge dumper, with a payload of 30 cwt. and having a hydraulically controlled side discharge 1 ft. 3 in. above ground level. (Stand D12.)

## Roadmaking Equipment

THOMAS GREEN AND SON LTD., of Smithfield Works, Leeds 2, is exhibiting a new addition to its range of vibrating rollers. The new product is a tandem vibrating roller which can be used at all stages of road construction. It weighs 3¾ tons (3,810 kg.), is powered by a Petter air-cooled diesel engine, and has a rolling width of 4 ft. It is a development of the proven 30 cwt. model and incorporates Greens patent vibrating system and other features. Other exhibits include vibrating rollers, from the lightest pedestrian controlled units weighing 8 cwt. (406 kg.) and 12½ cwt. (635 kg.), a tandem type weighing 30 cwt. (1,525 kg.) to a trailed model weighing 3½ tons (3,556 kg.). Examples of deadweight rollers which weigh from 11 cwt. (558 kg.) to 13 tons (13,208 kg.) are also on show. As well as these machines, which are powered by well-known petrol and diesel engines, there is a 7/12-ton self propelled pneumatic tyred tandem roller which is powered by a Ford industrial diesel engine and incorporates in the transmission, a torque converter and four-speed gearbox. (Stand A26.)

MACHINERY (CONTINENTAL) LTD., of 42 Park-street, Mayfair, London, W1, is showing an entirely new vibratory screeder for operation by one man and driven by a Villiers Mark 10 petrol engine. The EG screeder outdates and outspeeds other conventional types of screeder, allowing one man to tamp and finish 900 sq. ft. of flooring in one hour. The increased compaction obtained with this machine makes it equally suitable for factory floors or road work, and its higher speed of operation and saving of one operator allows substantial savings in

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labour costs. There are five interchangeable steel beams ranging from 5 ft. to 16 ft. lengths for fitting to the vibratory unit with four easy fitting bolts. Also on show for the first time and completely new is the Giraffe vertical hoist, which can be erected by two men in one hour and is capable of hoisting materials or equipment to a height of 95 ft., the change-over from automatic skip to platform being a simple and immediate operation involving the knocking out of two pins. The automatic tipping skip can be discharged at any height. Another new product is a simple light-weight tar spraying machine with high output, designed for spreading tar, bitumen, and composition surfaces. Heating is by gas or fuel. There is a patented drum hoisting apparatus to simplify filling, a large heating area, regulated spraying pressure, and a special three-way valve enabling the tank to be re-filled from outside storage or the filling of buckets direct from the machine. The capacity is 55 gal. (Stand A118.)

MARSHALL SONS AND CO. LTD., of Gainsborough, Lincs., is showing a new three-wheel diesel road roller, the Highwayman Mark 2. This latest addition to the Road-Marshall range incorporates hydrostatic transmission and an unusual system of ballasting which enables the roller weight to be varied between 9 to 16 tons. There is a choice of diesel power units, either a water-cooled Perkins or an air-cooled Ruston can be fitted. Also available for the roller is a new type of hydraulic scarifier. The Dowty Dowmatic drive between the power unit and the final drive gears eliminates clutches and change speed gearbox. The transmission consists basically of a variable delivery tilting head type piston pump driving a fixed displacement motor, the pump being driven by the prime mover, while the motor drives through a reduction gear to the rear rolls. Variation of the pump angle controls the speed and direction of rotation of the hydraulic motor, and consequently of the roller. This hydrostatic transmission provides infinitely variable road speeds of up to 5 mph forward and reverse while, for normal rolling, the power unit is kept running at the optimum fuel consumption speed. Ten separate 10 cwt. cast-iron ballast weights can be placed in the centre portion of the main frame enabling the net metal weight of the roller to be increased by 5 tons. The weights, positioned in units of 1 ton (two weights) may be located in either the front or rear of the compartment allowing front and hind roll pressures to be varied. A two tine hydraulic scarifier is available for this roller. Fitted to the right hand side of the roller immediately behind the rear roll, it is carried on a 4½ in. diameter steel shaft held in brackets bolted to the main frame and there is no overhang beyond the edge of the rear roll. The scarifier has variable depth control and can be operated either from the side of the roller or from the driver's seat. Water-cooled Perkins or air-cooled Ruston diesel power units are available. Mounted at the extreme rear of the roller behind the driving position, both engines are accessible for eye-level maintenance. Lockable hinged doors are provided each side of the engine compartment. All rolls are provided with a plug for filling with water ballast and a removable plate for filling the rolls with sand ballast. Power operated hydraulic steering gives control over a total of 80° steering lock. The 40 gal. fuel tank, with filler spout and built-in strainer, is welded to the near side main frame at a convenient height for filling. An 83 gal. water tank with filler forms an integral part of the main frame below the ballast weight compartment. Water spray pipes are provided to both front and rear rolls with an independent control for each roll. A power pump feeds these pipes and by means of a two-way valve this pump can be used for filling the water supply tank. 26 ft. of armoured hose with foot valve and strainer is permanently connected to the pump and is carried under the rear of the roller. (Stand A64.)

*The 'Highwayman' Mark 2 with hydrostatic transmission and hydraulic scarifier*

THE SELECTION of exhibits by THE PHOENIX ENGINEERING CO. LTD., of Chard, Somerset, includes the 'Phoenix' pre-coated chipping spreader, used to spread tar or bitumen pre-coated chipping at a pre-determined rate. It is powered by a Lister HA. 14 hp air-cooled diesel engine. Other items on display are the 'Phoenix' 1961 model Mark 3 tar and bitumen spraybar; the 'Phoenix' model 'PA' heater and sprayer for all tar and bitumen, having 160 gal. capacity; and the 'Phoenix' engine-operated cold emulsion sprayer with pressure tank of 95 gal. capacity. (Stand B104.)

AN AMERICAN MACHINE exhibited by ROTARY HOES LTD., of West Horndon, Essex, is the Howard 'Unimix,' made by the company's US associates, the Howard Rotavator Co. Inc. of Harvard, Illinois. The Unimix is designed as a low-cost answer to the mixing and pulverising jobs encountered by contractors and municipal bodies. It operates from the pto of modern tractors in the 50 to 80 hp range and is particularly suitable for the mixing of additives. Another interesting piece of plant on show is the Howard 48 soil stabiliser and compacter used in the construction of the Ross Spur Motor Way. This is in two parts—the stabiliser and the compacter unit. The basic power for both is supplied by the Fordson Super Major tractor. These machines enable the accurate spreading of cement, the pulverising of soil, the addition of water and the mixing of cement, soil and water together with the kneading, screeding and compacting to levels to be carried out on the one plant. Also on display is the Howard Super Trencher which is also powered by a modified Fordson Super Major. Available with either Rotaped tracks or four-wheel drive, the Super Trencher is designed to dig trenches down to 48 in. and at widths of either 8 or 9 in. A 42:1 Howard reduction gearbox is fitted which enables speeds of between 6 ft. and 12 ft. a minute to be obtained. Grading to a tolerance of a quarter of an inch in 100 yd. is possible and a pipe-laying attachment is fitted. (Stand B10.)

## Cranes

VISITORS TO the stand of JOHN ALLEN & SONS (OXFORD) LTD., Cowley, Oxford, will find much to interest them in the range of cranes and trenchers on view. Among the truck-mounted cranes the recently introduced Model T.184 can be seen. This, with a maximum lift of 18 tons, fills the need for a machine capable of fulfilling heavier lifting duties. It can be fitted with booms 30 ft. to 100 ft. in length, and employs Leyland oil engines for chassis and turntable operation. A five-speed main gearbox and two-speed auxiliary gearbox give 10 road speeds up to 28 mph. (Stands D42 and PG11.)

THE PRINCIPAL exhibits of BABCOCK & WILCOX LTD., 209 Euston-road, NW1, are examples of the first British-built horizontal saddle-jib tower cranes, types G15HV-A and G60HV-A. The former is a rail-mounted crane, with a jib radius of 66 ft. and a lifting height of 43 ft. It has a two-speed main winch and is fitted with a cable winder unit. The G60HV-A is a telescopic, rail-mounted tower crane having a maximum jib radius of 99 ft., and a lifting height of 72 ft. This model has twin saddles linked in tandem capable of a maximum load of 6 tons, and is fitted with two-speed main winch and cable winder unit. (Stand A120.)

AN INTERESTING mini-mobile crane is being displayed by BUTTERS BROS. & CO. LTD. of Long-lane, Hillingdon, Middlesex. The crane can be self-propelled, fixed or free running and can be driven and worked under the most arduous of conditions. It is particularly suitable for grabbing when it is assisted by the use of a patent 'arm' device which enables considerable force or purchase to be applied at the grab. This force is great enough to enable the tooth grab to bite into hard-packed ground and soil. In a few minutes the grab can be altered from a tooth bite to a bucket for handling sand and gravel. (Stands A78 and PG30.)

CLIMBING CRANES LTD., of 52-54 High Holborn, London, WC1, is exhibiting its range of cranes for use in multi-storey buildings and silos. They can be supplied with horizontal or luffing jibs and with ancillary equipment such as brick and concrete ships. The cranes can climb, remain static or be rail-mounted according to site conditions. (Stand A38.)

THE OTUS KASSBOHRER model KT8000 lorry-mounted tower crane is being exhibited for the first time to the public by OTUS PLANT CO. LTD., of 16 South-st., Eastbourne. It can be mounted on to new

or secondhand lorry chassis. It is particularly well suited for use on smaller building sites where a tower crane on rails would be uneconomical. Due to the short time which it takes to change the crane from its working to its travelling form it is able to serve several building sites at the same time. On a level site erection, times as low as twenty minutes can be obtained. The crane can, however, still be used profitably on large sites due to its size and efficiency. (Stand A14.)

A NEW MACHINE, a 27-ton truck-mounted crane, is being introduced by PRIESTMAN BROTHERS LTD., of Hedon-rd, Hull. Capable of taking a combined boom and jib of up to 140 ft., it has been designed to meet the current trend towards higher building, and the need for a fast, mobile lifting unit. A maximum load of 60,000 lb. can be lifted at a speed of 16 ft. per min. on 8 'falls' of rope at 12 ft. radius. This is made possible by the patented cross-roll slewing ring and to the distribution of the deck machinery. (Stand A24.)

TWO OF THE TAYLOR-JUMBO range of diesel-hydraulic mobile cranes manufactured by F. TAYLOR AND SONS (MANCHESTER) LTD., of Salford, Lancs, are being exhibited at the Crystal Palace. One, the 'Series 42,' is a self-propelled mobile crane which has been specially designed for cross-country performance. The 4-wheel drive makes it especially useful on undeveloped sites. The second, which is in action on the proving ground, is the 'Series 50' 4 x 2 mobile crane with a lifting capacity of 4 long tons at 10 feet radius. It is equipped with hydraulic telescopic jib extending to 18 feet. In addition to the two cranes, the Taylor Salem earth borers are being shown for the first time. (Stands D8 and PG61.)

*The 'Jumbo' Series 50 mobile crane with lifting capacity of 4 tons*

AMONGST THE CRANES being exhibited by TOWER CRANES LTD., 39 Victoria-street, London, SW1, is its universal model 8A. This can be transported and erected as easily as a hoist, but gives the full advantage of a tower crane on small jobs. Their transportation is allowed on the British roads in full length, completely assembled, and erection takes approximately half an hour by two men. The crane can operate stationary on its pneumatic tyres supported by jacks or travel under its own power on rail tracks. (Stands C24 and PG17.)

A NEW HYDRAULICALLY operated grab of ½ cu. yd. bucket capacity for use with both the mobile and portable versions of the 2-ton Tunny crane is being shown for the first time by TUNNY CRANES LTD., of 2 Victoria-street, London, SW1. The new grab is the first to be specifically designed for use with the Tunny crane. Chiefly intended for sand and gravel duties it has an unladen weight of 6 cwt., its maximum laden weight of 14 cwt. being well within the capacity of the crane. It is designed to operate at 10 ft. radius and is shown in operation at the Exhibition, fitted to a portable crane unit, drawn by a Ford Dexta tractor and powered by a Lister S.L.3 oil engine. (Stands C30 and PG25.)

## Engines

BRITISH DEUTZ LTD., 1-6 Essex-street, London, WC2, presents a good cross-section of its extensive light, high speed diesel engine production programme as well as two typical examples of crawlers. Of the latest addition to its air-cooled diesel range, the FL 310 series, single and twin cylinder arrangements are shown, the former developing up to 9.5 hp at 3,000 rpm, with the twin cylinder having an output of 19 hp at the same speed. The 514 air-cooled series is depicted by a standard 4 cylinder automotive unit having an output of 85 hp at 2,300 rpm. A cut-away working model of the same size engine allows one to see the now well-known 'Duetz-L'Orange' swirl chamber combustion principle, together with the cylinder cooling arrangement. The FL 514 series is produced in 2, 3, 4 and 6 cylinder versions ranging in output from 16.5 hp to 125 hp at speeds of between 1,000 and 2,300 rpm. (Stand B18.)

THE FORD MOTOR CO. LTD., South Ockendon, Romford, Essex, is featuring a selection from its current range of diesel and petrol engines and industrial equipment. Amongst the engines is a 6-cylinder diesel of 5,416 cc and developing 100 hp at 2,500 rpm. In addition it is showing its new 112E Series petrol engine (1,340 cc), and a 7-ton axle and a 4-speed gearbox. These are supported by a special display feature showing all the Ford powered manufacturers' equipment — dumpers, rollers, compressors, cranes, etc. Much of this can be seen, anyway, in action on the two proving grounds. (Stand A114.)

POWER TO ASSIST the construction engineer is strongly represented by the FORD MOTOR CO. LTD (TRACTOR DIVISION), of 1 Lay-street, Ilford, Essex. The dominating theme of the display is versatility and a wide range of construction equipment is centred around Fordson power units to illustrate this. Ford's own exhibit includes: power units (Dexta and Super Major), the Matbro fork lift truck, the Merton 454 shovel, the Weatherill 12H shovel, the Bray 430 shovel, the Muir Hill 10B dumper, the Shawnee-Poole 'Dexta Dumper,' the Boydell Camill dumper, the Whitlock 'Dinkum Digger' and the Bamford JCB-3 digger. (Stand A42.)

A RANGE of industrial engines, manufactured in Pinneberg, near Hamburg, and Munich, in West Germany, is being exhibited for the first time in this country by INDUSTRIAL POWER UNITS LTD., 1 Mount-rd., Tettenhall Wood, near Wolverhampton: All the engines are light-weight, fan cooled, two strokes. The petrol range extends from a 26 cc single-cylinder unit developing .85 hp at 6,000 rpm and weighing less than 7 lb. complete with fuel tank and silencer, to a 30 hp 2-cylinder engine of 750 cc which weighs no more than 132 lb. The feature of these engines is an outstanding power-to-weight ratio. (Stand B116.)

THE DISPLAY by R. A. LISTER AND CO. LTD., of Dursley, Glos., includes the SL3 air-cooled diesel engine with hydraulic pump mounted. Other similar engines are the SL4 4-cylinder basic unit, the LD1 4-stroke single cylinder unit, the LD2 reverse rotation 'dumper arrangement,' and the HA3 3-cylinder, 4-stroke unit. There is also a sectioned unit of the HA2 2-cylinder engine. Water-cooled diesel engines shown include the basic JP4 4-stroke unit rated at 46 bhp, and the FR6 radiator-cooled unit rated at 54 bhp at 1,800 rpm, with mounted tank, electric starting and clutch. Two portable generating sets are included. A PHC/LD2 elevating platform autotruck, and a PL9 industrial power conveyor are also of interest to industry. (Stand B60.)

A WIDE RANGE of three, four and six cylinder Perkins industrial diesel engines varying from 10 to 125 bhp are exhibited by PERKINS ENGINES LTD., of Peterscourt, Peterborough. All Perkins industrial engines are tailored to fit individual applications and can be obtained with many different types of flywheels, sumps, flywheel and clutch housings, and manifolds. They are also available in stage-by-stage form up to a complete power pack to suit customer requirements.

Several of these power packs and power units are shown including two with direct injection diesel engines. One such is the Six 354 power pack, which has a 5.8 litre direct injection engine rated up to 10 bhp at 2,400 rpm for continuous operation. The basic Six 354 engines can be obtained with ratings up to 112 bhp at 2,800 rpm when fitted with an hydraulic governor and used for suitable intermittently rated applications, such as fork lift trucks and other mobile equipment. At this rating, the Six 354 develops maximum torque at 260 lbs. ft. at 1,450 rpm. Another direct injection pack is the Four 270, which develops 62 bhp at 2,000 rpm. Also on view is a low-priced power unit, with tractor-type styling fitted with a three cylinder Perkins Three 152 diesel engine. Suitable for powering irrigation pumps, hammer and grinding mills, saw benches, belt driven appliances, and numerous other forms of stationary plant, the Three 152 power unit has an intermittent rating of 36 bhp at 2,000 rpm. At this rating, it produces maximum torque of 110 lbs ft. at 1,250 rpm. (Stand B106.)

PETTERS LTD., of Staines, Middlesex, is featuring fifteen air and water cooled diesels from 1½ to 108 bhp and one 3 bph petrol unit. Some of the engines are in the form of complete units with accessories such as speed increasing gear and hydraulic pumps with adaptors to indicate their versatility for a wide range of applications, while others are shown in

Photograph by courtesy of King's College

*Library Extension—King's College, Newcastle*
*Architects: Easton and Robertson, Cusdin, Preston and Smith*

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for suspended plaster ceilings

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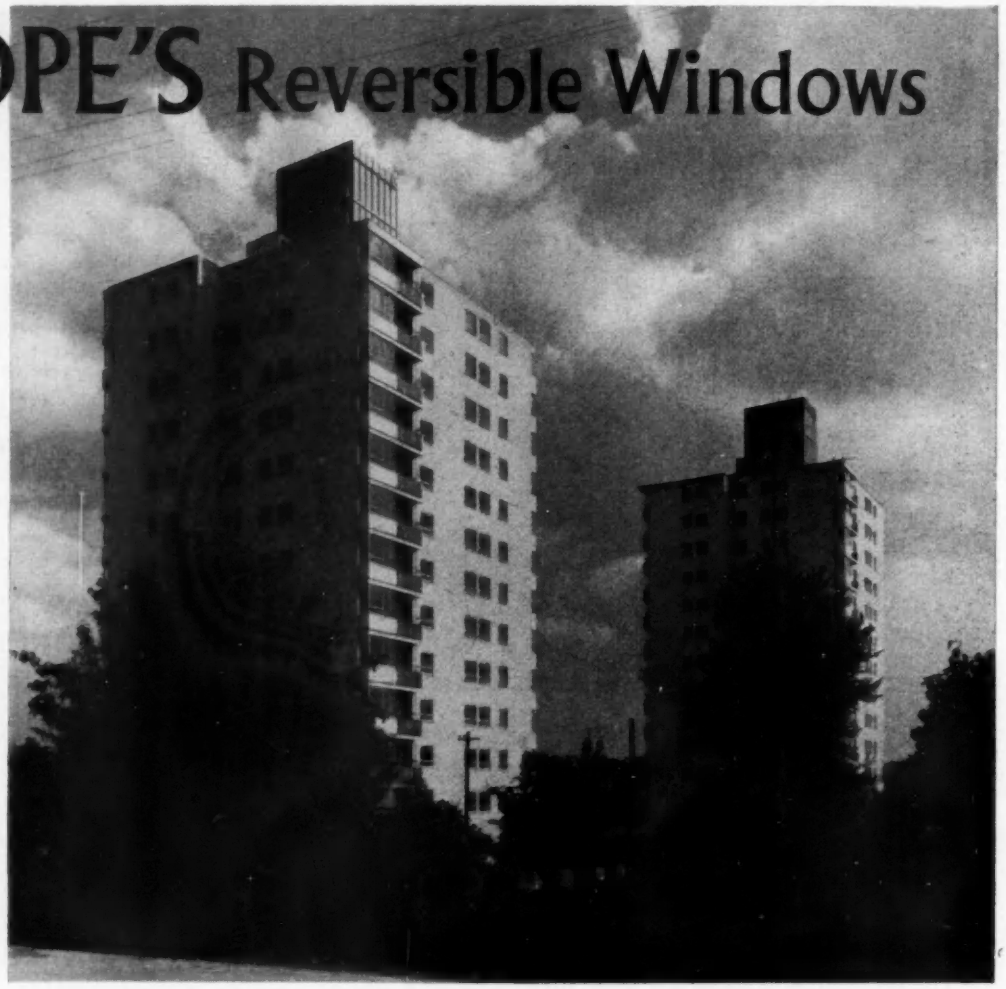
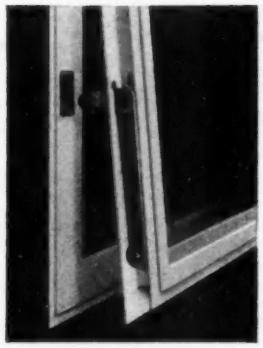
# HOPE'S Reversible Windows



HIGHVIEW GARDENS, NEW SOUTHGATE *for the Borough of Southgate*
*David du R. Aberdeen & Partners, F/A.R.I.B.A., Architects*

HOPE'S Standard Reversible Windows, which turn completely through 180° for easy cleaning and painting from inside, have been installed throughout these thirteen-storey blocks of flats. Fixed sublights 1 ft. deep were also used throughout for added safety and convenience, and HOPE'S hot-dip galvanized pressed steel standard cills.



*The detail shows our patent releasable side-arm* ☞

*Send for List* 380

**HOPE'S WINDOWS**
*The Name Guarantees*

HENRY HOPE & SONS LTD
SMETHWICK, BIRMINGHAM
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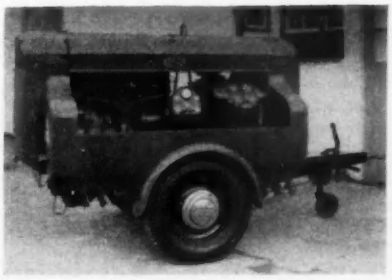
sectioned form. Petter Service facilities are represented by a mobile instruction vehicle, a fully equipped service van, and a display of service engine exchange units. Service engineers will be available to give on-the-spot advice. (Stand B38.)

RUSTON AND HORNSBY LTD., of Sheaf Ironworks, Lincoln, is showing five diesel engines, all air-cooled units drawn from its YDA, YWA and YBA ranges which have been designed to meet power requirements in a wide variety of construction equipment applications.

The YDA range comprises 2-, 3-, 4- and 6-cylinder normally aspirated types, and a 6-cylinder turbo charged version. This range, having common bore and stroke dimensions, covers powers from 16 to 125 bhp, according to rating and application, at speeds of 1,000 to 2,200 rpm. Various methods of drive are available, including flexible coupling, clutch power take-off and reduction gear, together with power pack versions, including canopy. Full power may be taken from either end of the crankshaft, thus providing the facility of either direction of rotation. The class 6YDAX, 6-cylinder, turbo charged and sectioned model 3YDA, 3-cylinder normally aspirated units are exhibited. Further, the class 6YDA normally aspirated engine can be seen in operation in the Ruston-Bucyrus 22RD excavator, for which it is the standard power unit, on their proving ground. The YBA and YWA ranges are very similar in appearance, having both single- and twin-cylinder sizes, and cooled by centrifugal fan bolted to flywheel. The main difference between the YWA and YBA ranges is that the YWA has 4 in. bore, whereas the YBA has 3½ in. bore. Both types are similar in overall dimensions, the holding down bolt hole centres, crankshaft centre heights and power take-off positions being identical, thus providing interchangeable power units which cover a range of 4 to 24.5 bhp. The YBA covers from 4 to 14.7 bhp at speeds of 1,000 to 1,800 rpm, whereas the YWA covers from 6 to 24.5 bhp at speeds of 1,000 to 2,200 rpm. Adaptability is the key note of these two engines, full power being available at engine speed from the flywheel and gear ends crankshaft level, and half speed in the camshaft position gear end. Power take-off can be through flexible coupling, hand operated clutch, automotive clutch and gearbox, speed increasing gear, pulley, etc. The engines can be readily started by hand from any of the three positions mentioned above, and either direction of rotation is available. Both single- and twin-cylinder versions of the YWA range and the single-cylinder engine of the YBA range are shown at the Exhibition. (Stand B38.)

## Compressors

BRISTOL PNEUMATIC TOOLS LTD., Causeway Works, Fishponds, Bristol, features the new Model 271 two-cylinder two-stage portable air compressor which has a guaranteed output of 215 cfm free air delivery to BS 726. This latest addition to the Bristol range of airflow cooled compressors is an exceptionally compact two-wheel trailer mounted compressor, designed for easy manoeuvrability and



*The model 271 2-cylinder, 2-stage portable air compressor*

high speed towing to meet the requirements of 4/5 tools or pile driving. Low temperature compression results in substantial savings in fuel consumption and running costs and, by obviating carbonisation and heat distortion of valve-gear, ensures a high standard of operating efficiency with vibration-free running. The unit is powered by a Fordson six-cylinder diesel engine providing 64 bhp at 1,400 rpm and controlled by a pneumatic speed governor. Another new model shown is the 377, an exceptionally compact mobile portable compressor for the operation of up to six heavy-duty road breakers. This four-cylinder compressor has an output of 320 cfm guaranteed free air delivery and is mounted in a four-wheel chassis with automotive-type front-wheel steering and over-run and parking brakes. The compressor is appreciably less bulky and approximately half the weight of many plants of similar output and is driven by a Dorman exhaust turbo-charged four-cylinder diesel engine, developing 90 bhp at only 1,400 rpm (Stand A68.)

THREE VERSIONS of the new Halco 'Tiger' machine are displayed by the HALIFAX TOOL CO. LTD., West-lane, Southowram, Halifax. The first is the Halco 'Tiger' power truck which can be used to mobilise compressors, generators, pumps or similiar equipment able to be mounted on the chassis. The specially-designed gear box enables such equipment to utilise the 86-96 bhp Ford 6-cylinder diesel engine at maximum efficiency and also allows the unit to be driven on roads or over the roughest country. The second, the Halco 'Tiger' mobile compressor comprises the same unit with a two-stage, oil-flooded rotary air compressor giving an output of 210 cfm at 100 lb./sq.in. In the third version, the Halco 'Tiger' mobile deep drilling rig, a mast with winch and rotation motors, is mounted on the mobile compressor making a highly mobile drilling machine using the Halco-Stenuick 'down-the-hole' hammers. It will drill holes from 2⅝ in. to 4¾ in. diameter to a depth of 150 ft. or deeper for special applications. Drilling can be either dry or with water flushing. This machine is ideal for contracts where holes are required to be drilled on different sites and for water-well drilling. (Stand B30.)

THE DISPLAY by HOLMAN BROTHERS LTD., of 44 Brook-street, London, W1, includes a Rotair 150, smallest of this company's rotary compressor range, which is mounted in an Austin '152' Omnivan to give a mobile power unit. It is shown for the first time.

Other Rotair models exhibited are a 600 portable, and a stationary, electrically powered version of the Rotair 370. A range of Holman rock drills, road breakers and pneumatic tools is shown, together with a selection of Holbits and Holsteels. A Holman Tractair, a compressor mounted at the rear of a Fordson tractor and driven from the power take-off shaft is shown with a mule-dozer attachment. Drill-rigs include the crawler mounted Holtrac, a tractor mounted Vole drill and a wagon drill. Other compressed air equipment includes sludge pumps, concrete vibrators, air engines and hoists.

Equipment manufactured by subsidiary companies in the Holman Group and displayed on the stand includes a selection of pneumatic control equipment, comprising cylinders in various sizes and a range of control valves, from MAXIM POWER LTD., Camborne, Cornwall; dust control equipment for use on portable tools, using the low volume, high velocity method, from DUSTRUCTOR CO. LTD., also of Camborne; and examples of Goodyear pump sets suitable for site work from GOODYEAR PUMPS LTD., Walmgate-road, Perivale, Middlesex. (Stand A16.)

A LARGE SELECTION of mobile and portable compressors designed for meeting the needs of local authorities, public utilities and specialist contractors are featured by THE HYMATIC ENGINEERING CO. LTD., of Redditch, Worcestershire. The premier exhibit is the new Hymatic-Hydrovane compressor, type 72LR, which has been designed for Land-Rover mounting. The compressor is driven by the Land-Rover engine through the rear pto and fits in place of the normal tailboard, leaving ample space for the conveyance of personnel and tools. Designed for use with either petrol- or diesel-engined Land-Rovers, it is quickly and easily detached from the vehicle. The 72LR will power a heavy concrete-breaker or a wide variety of smaller pneumatic hand tools. The range of Hymatic's electrically-driven Hydrovane compressors is represented by the 90E100, suitable for powering all large pneumatic tools, particularly on multi-storey building sites where mobility is of prime importance. Smaller electrically-driven models are also on view. An example of smaller engine-driven Hydrovane compressors is the 7P100, suitable for powering pneumatic hammers or spray guns for building maintenance. Another engine-driven compressor on display is the 98P100, which can operate continuously at full power the same range of tools as the 72LR. With its low weight and compact size, this compressor is easily transported by hand and can be used without towing equipment on difficult sites away from roads. (Stand B90.)

A COMPLETE RANGE of portable rotary air compressors (the Gyro-Flo), available in 125, 250, 365 and 600 cfm sizes, together with the two-stage, air-cooled, portable model (TP60) is featured by the INGERSOLL-RAND CO. LTD., 165 Queen

Victoria-street, London, EC4, in a display that embraces every compressed air aid required by civil and engineering contractors. Other items of equipment include the CM2 Crawl-Ir, a completely mechanised, self-propelled, crawler drill; the FM-4 Wagondrill for heavy duty drilling; and the JHM Wagonjack, a one-man, lightweight mounted drill. Hand held equipment includes the complete range of jackhammers, paving breakers, diggers, tampers, sump pumps, winches, vibrators, impact tools, grinders, scaling hammers, drills and all accessories. Stationary air power is represented by a 125 hp XLE compressor, a heavy-duty, double-acting, crosshead type, two-stage, water-cooled model, one of a range that covers 125 to 400 hp with a free air delivery of up to 2,000 cfm. (Stand B6.)

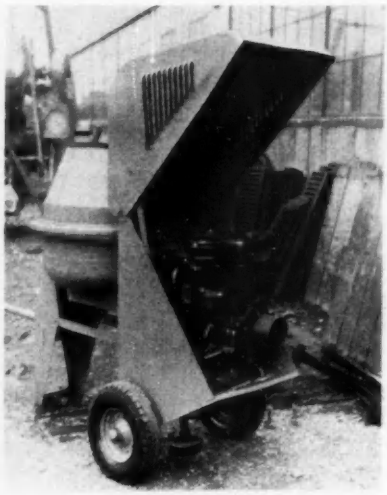
## Concrete Mixers

BLAW KNOX LTD., Short's-way, Rochester, Kent, is displaying a varied range of machinery, a number of exhibits being new or improved products shown for the first time. The new AP-100 concrete mixing plant incorporates either one or two 'Gyramixer' 1 cu. yd. pan-type concrete mixers and offers ready versatility and close accuracy in meeting any concrete specification. With two 'Gyramixers' this unit will maintain an hourly output of 100 to 120 cu. yd. It is an 8-compartment batching plant having 100 cu. yd. aggregate storage capacity, with portable extendible bulk cement storage and weighing unit. The plant is of unit construction and has a loading height of only 28 ft. The exhibit shows the AP-100 concrete mixing plant with one 'Gyramixer,' two 30-ton bulk cement silos, and a Blaw Knox 'Auto-Airflow' ground receiving hopper. Another feature, the Blaw Knox 'Varispeed' truckmixer/agitator, also available as a 6/6½ cu. yd. unit, incorporates hydrostatic transmission, giving smooth operation and precise control of drum speeds through a single hand lever. It will produce consistent concrete to any specification, has a fast charge-mix-discharge cycle, will carry big legal payloads, and is equipped to meet all operating conditions. The hydrostatic drive is lighter in weight than conventional hydraulic or independent engine drives. Two paver finishers shown include the PF-90 'Series B,' the latest model which incorporates a new hydraulically operated folding hopper, simplified ratchet type tamper and screed crowning device, and improved tamper and screed. The new folding hopper provides individual control of movement of each hopper side. The minimum travelling width has been reduced to 8 ft. 10½ in. The new PF-45 'Series N' paver finisher also incorporates a hydraulically operated folding hopper in which provision is made for individual control of movement of each side to maintain positive material flow to the twin bar conveyors. An exclusive feature of the design is that by means of an adjustable pivot point the screed can be positioned in relation to the screw feed to control the flow of material across the full screed width according to the requirements of the type of material being laid. The travelling width has been reduced to 8 ft. (Stand A62.)

THE CORNELLY EQUIPMENT CO. LTD., of 39 Victoria-street, London, SW1, is showing equipment from five countries covering the production and use of concrete on site and in the pre-cast works. The largest exhibit is a complete weigh-batching and mixing plant with an output of 60 cu. yd. per hour and storage capacity of many thousands of yards. The equipment will comprise the 'record arbau' feed cone and weighing equipment fitted with a drag line boom scraper with a 41 ft. boom. This will feed the latest 'record whirlflow' high speed pan mixer with mixing cycles of 40-60 seconds. The machine on show has an output of 1 cu. yd. but other models are available from ½ cu. yd. to 4 cu. yd. The record range of lightweight rollover, side discharge and bottom discharge concrete skips are shown carrying away the mixed concrete using a Champion 3D transportable tower crane of great interest on constructions up to 5 storeys. The maximum height is 80 ft., the maximum radius 40 ft. and maximum load 20 cwt.—10 cwt. can be carried at the full radius. This crane has complete remote control and can be towed from site to site behind any lorry. (Stand A94.)

EXHIBITS by MILLARS' MACHINERY CO. LTD., of Pinners Hall, Gt. Winchester-street, London, EC2, include a 3½-T fast towing concrete mixer—a new product. This is the well-known 3½ cu. ft. tilting drum, hand fed machine now available as a fast towing unit. It has a telescopic drawbar which operates brakes automatically. On site the drawbar beneath pushes the machine completely out of the way and it is a simple matter to withdraw the bar, turn it to engage brake overrun device and connect to a towing vehicle. A safety bar is fitted to the drawbar making it impossible to link to a towing vehicle without engaging the brake mechanism. The machine has been designed so that it is a simple matter to convert existing 3½-T machines to fast towing units. Conversion kits are available. Another new product is the 5-T fast towing concrete mixer, a 5 cu. ft. capacity machine similar in design to the 3½-T. The specification of this adaptation is the same as the 3½-T. Entirely new also is the 14-RH reversing drum concrete mixer. Jointly manufactured by Babcock and Wilcox Ltd. and Millars' Machinery Co. Ltd., it is a 14 cu. ft. mixed batch capacity machine. This is a rugged fast mixing unit with exclusive triple cone mixing drum, hydraulically operated loader bucket, batch weighing equipment, precision control of water feed and grouped controls. Discharge is by simple reversal of the drum. Finally there is Millars Vacuum Press, a unique machine for the fast production of concrete slabs. By using the vacuum process method, pioneered by Millars, this compact machine produces a concrete slab up to 3 ft. x 2 ft. x 2 in. in approximately 3 minutes. The low cost of the equipment, plus speed and simplicity of operation with minimum maintenance keeps the price per unit down even on the shortest run. The unit occupies only 9 sq. ft. and is 10 ft. high. (Stand A102.)

THE FEATURE of the display by FREDERICK

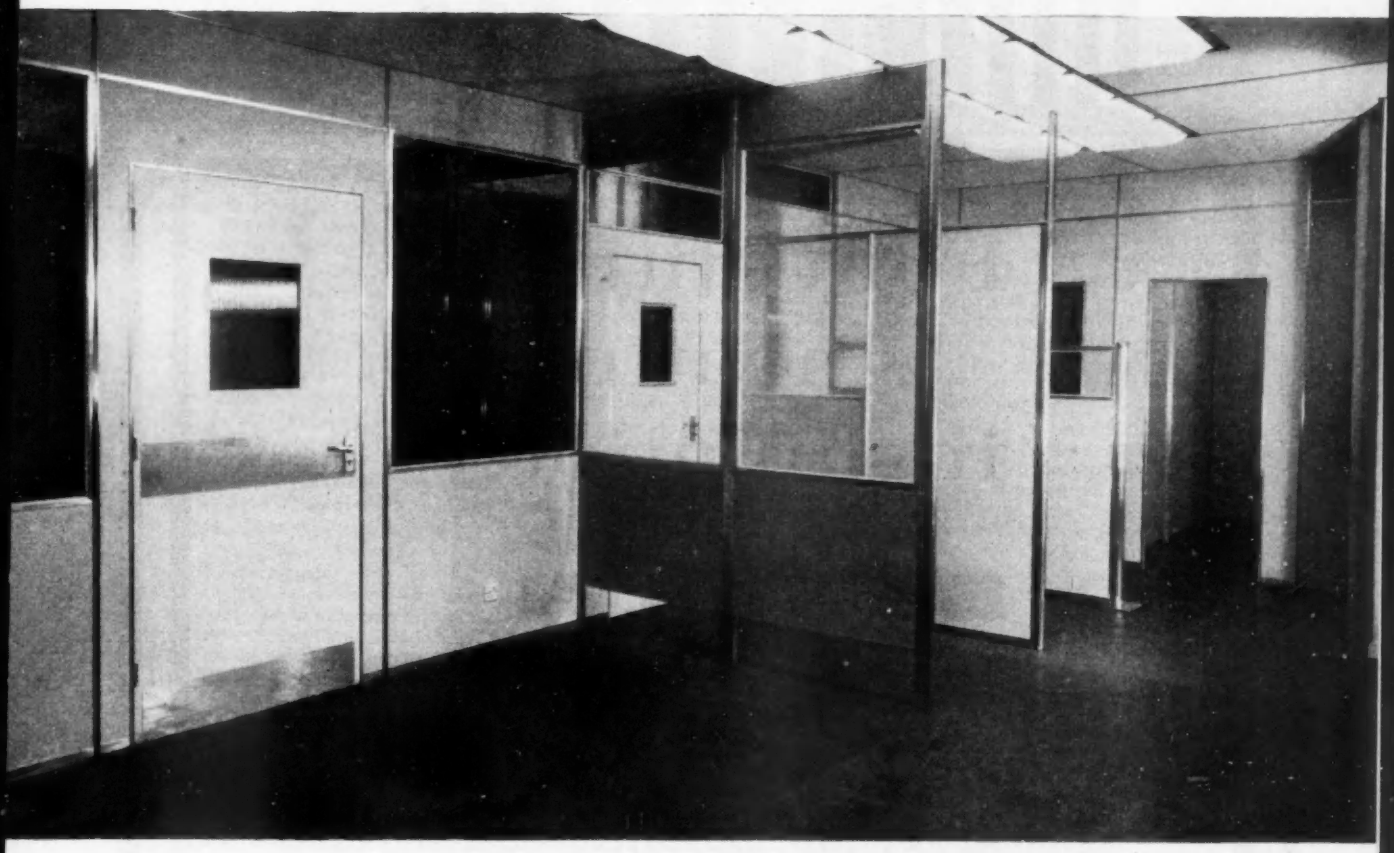


*The Parker 'Mini-Giant' fitted with a diesel engine*

PARKER LTD., Viaduct Works, Catherine-street, Leicester, is the 'Starmix' 37 mobile asphalt plant which was shown for the first time at the Public Works Exhibition, London, last September. This unit is driven by multiple electric motors but is designed for quick change-over to diesel engine or single electric motor if required. To make transport and erection simple, the drying and mixing sections are both self-contained units. A new system of quick change for screen meshes has been incorporated allowing the meshes to be changed without the use of nuts and bolts. Pneumatic controls are fitted and the two stages of the 'Parkermatic' control are available. Batch capacity of the plant is one ton. Another big plant on show will be a model 1109 Mk. II 'Crush-Ranger' mobile crushing plant. It has an output in excess of 200 tons per hour and will handle pit-run sand and gravel or form a secondary unit to a primary rock-crushing plant. (Stand A28.)

RANSOMES AND RAPIER LTD., of 32 Victoria-street, London, SW1, is exhibiting a RapieR 9 cu. yd. hydraulic drive truck mixer mounted on a Foden chassis; a RapieR 1520 mobile crane; and a RapieR 6P80 self priming pump. The RapieR 9 cu. yd. hydraulic drive truck mixer has as its prime mover the chassis engine which drives two hydraulic pumps. This two pump hydraulic drive—with one pump driven from the front of the engine and the other from the gear box power take-off—gives great flexibility of control and drive to meet all site operating conditions. A control valve operated from the discharge end of the machine enables the drum rotation to be quickly reversed for discharging and a throttle control lever varies the speed of the drum. The mixer has an unmixed batch capacity of 12½ cu. yd. and can agitate a batch of 11 cu. yd. of premixed concrete. Charging is simple: with the drum revolving at full speed it can be loaded in about two minutes. Discharging is smoothly effected by special blade design at the mouth of

# Announcing . . .



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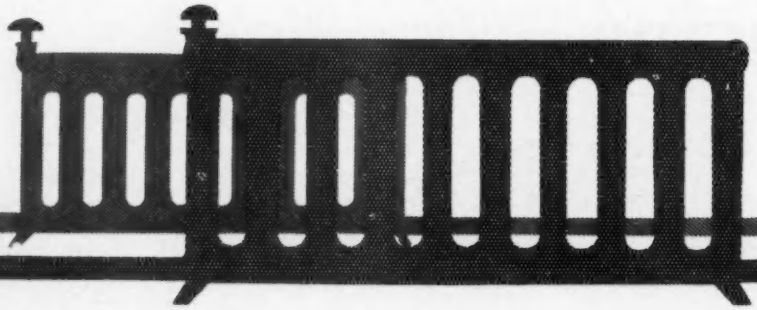

# For central heating installation

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BRANCHES THROUGHOUT THE BRITISH ISLES

the drum when its direction of rotation is reversed. The long swivelling chute can be swung out of the way for delivering concrete directly into dumpers or skips. Mixing water is sprayed into the drums under pressure from the measuring water tank by a 1½ in. pump driven by a separate hydraulic motor. A wash down hose and nozzle is provided for cleaning. The new RapieR 1520 mobile crane can have either strut or cantilever jibs. It is here exhibited with a 60 ft. strut jib, the basic length of which is 30 ft. being extended by adding 10 ft. or 20 ft. jib inserts to give a maximum length of 80 ft. Cantilever jibs are made in basic lengths of 20 ft. and 30 ft. and either 5 ft. or 10 ft. bolt-on extensions are available. A 50 ft. jib is obtained by adding a 30 ft. braced extension to a basic 20 ft. jib. The steering is air-assisted and exceptional manoeuvrability is obtained from a steering lock of 45° of the inner wheel which gives a turning circle radius of 21 ft. 6 in. The drive is diesel-electric with separate motors for hoist, derrick, slew and travel motions. All controls are in the driver's cab which has good all-round vision. (Stand A58.)

THE DISPLAY by RITEMIXER LTD., 15-29 East Clyde-street, Helensburgh, Dumbartonshire, includes 4/4½ cu. yd. and 7/7½ cu. yd. truckmixers which are of high discharge design and are available with either hydraulic or diesel drive. The diesel engine used is a BMC 2.2 litre unit. The mixers are light, yet strongly constructed to operate under the most difficult conditions. The chain driver drum is constructed from weight saving but extremely tough Corten steel, and has a guaranteed life of five years. The utmost care and attention in the design and manufacture of both the drum and its blades ensure the complete mixing of the concrete and its efficient discharge without segregation. An extremely simple and efficient system of discharge chutes is fitted at the rear of the mixer, while a water meter is fitted for accurate control and measurement. Water tanks can be supplied in various sizes to meet the operators' requirements.

The hydraulic drive is a totally enclosed system, using one pump driven from the front end of the vehicle crankshaft. The hydraulic oil passes through a series of valves to a two-speed motor and reduction gear-box. (Stand A106.)

AMONG THE EXHIBITS by the German firm of GEORG STETTER BAUMASCHINENFABRIK K.G., of Memmingen, West Germany, are a heavy-duty non-tilt concrete mixer with reverse discharge (FAO 125); and three electrically-operated heavy duty non-tilt mixers with reverse discharge (FAE 250/375, FAE 500 and FAE 750). The FAO 125 is a rugged, rolled steel framed unit with four telescopic legs which provide absolute stability and rigidity. The drive can be provided by an electric motor, petrol or diesel engine. Reduction gearing mounted in front of the drive source transmits the power from the latter through machine-cut gear-wheels to an oil-bath immersed rotating and distributor gear. Multiple-disc clutches control the to-and-fro rotation of the drum. The loader and overhead hoist winches, as well as any incorporated scraper unit, are driven through the oil-bath immersed distributor gear. The overhead hoist is equipped with single-lever control and non-return ratchet. The rope is taken off to the rear over a swivel-mounted jockey pulley, which means that the rope can be run to the hoist in any direction. This machine can be equipped with a mechanically or electrically-controlled scraper. The water is measured through an automatic water feed unit or water through-flow meter. The loader side of the mixing drum is provided with a charging apron. If the appropriate inclined hoist rails are used, the loader can be dropped to any depth. In the FAE types, all operations are controlled by push buttons and the drive is provided by two electric motors with flange-connected oil bath gear. (Stand B9.)

STOTHERT AND PITT LTD., of 38 Victoria-street, London, SW1, is showing its 3½T concrete mixer, 7T hydraulic concrete mixer, 5½/6 cu. yd. truck mixer with grit-spreading attachment and the Vibroll range of vibrating rollers. The 3½T tilting drum concrete mixer has an unmixed batch capacity of 5 cu. ft. and a mixed batch capacity of 3½ cu. ft. It is a good general-purpose machine driven by a 1½ hp D type Lister water-cooled or 1½ hp Lister LD type Petter air-cooled petrol engine. Alternative drives are available. The multi-plane four-bladed mixing drum ensures consistent mixing of all normal batches within 1 minute, the speed being limited only by the rate of feeding and taking away. The four-wheeled model can be fitted with pneumatic-tyred wheels, and the two-wheeled model with a drawbar for manual handling. There is also a two-wheel trailer model for safe, high-speed towing by private car. (Stand A52.)

*The Stothert & Pitt 5½/6 cu. yd. truck mixer with grit-spreading attachment*

A WIDE RANGE of concrete mixers, dumpers and vibrating road rollers, some of which are completely new developments, are displayed by WINGET LTD., Rochester, Kent. In the new type batching and mixing plant, the Winget Turbo-Plant, three items of equipment are grouped together into one integral low-level batching and mixing plant capable of producing high outputs of quality concrete. The main items of equipment are the Winget batcher of modified 'Polybatcher' design for aggregate storage and batching; the new Winget cement silo for cement storage and batching; and the Winget Turbomixer (model R50), semi-portable type. Another exhibit is the Winget 7TH/L hopper-fed tilting drum mixer, a 10/7 model of improved design for which the Winget 7THH was a forerunner. All the basic principles of its predecessor have been retained whilst many new and improved features have been incorporated. The drag-feeder system has an improved winch unit fitted with electro-magnetic clutch and oil bath reduction unit. This is mounted on the hopper side of the mixer thus giving full access to dumpers on the discharge side of the machine. A new, easily erected pin-pointed jib of tubular steel is fitted with a pivoted pulley fairlead. It can quickly be detached from the mixer by removal of four self-locking pins and packs flat for transport.

Improvements to the inlet valve on the water dispenser, together with a new type locking plunger on the tilting wheel have also been included. In addition to these new and improved features, the Winget 7TH/L retains all the advantages of hydraulic hopper operation, two mix positions, simple controls and the ability to give rapid output of the highest quality concrete. Other items of interest include a 6 cu. yd. hydraulic truck mixer, a range of poker vibrators, and a pedestrian-controlled vibrating plate compactor. (Stand D60.)

## Pumps

E. P. ALLAM & CO. LTD., 132-135 Sloane-street, London, SW1, as well as exhibiting all types of vibrating equipment has on show a new addition to its range of 3-4 in. diaphragm pumps. This has an output of 5,000 gph, a suction lift of 25 ft. and a total head of 40 ft. (Stands C8 and PG7.)

THE DISPLAY by AUTO DIESELS LTD., of Braby House, Smithfield-street, London, EC1, includes 1½ in. and 2 in. light duty pumps from its new 'C' range, and the Mark III version of the standard 'Mudlite' light duty diaphragm pump. In the heavy duty range of pumps, a new 2 in., a new 4 in. with the Petter PH engine, and a standard 6 in., are shown together with a new 4 in. diaphragm pump. A well-point from the new Auto Diesels dewatering system is also on view. On the generating side, a representative range is shown, including a 450w. set, a 2kVA set, and a standard DEX7A 7.5 kVA set with a Petter PH engine. There is also a standard DED30A with a Ford 592E diesel engine. (Stand B28.)

H. J. GODWIN LTD., of Quenington, Gloucestershire, is exhibiting two units for the first time—the CX4 high head pump, and the 1½ in. 'Compactum' unit.

In the CX4 high head pump the pump casing is of close grained cast iron and of the volute type with a flanged horizontal delivery. The delivery flange is cast integrally with the casing. A large diameter impeller of the single entry multi-vaned, shrouded type is fitted by means of a key and locking nut to a ground steel shaft which is supported by ball and roller bearings. These bearings are carried in a heavily ribbed cast iron bracket. The drive end of the impeller shaft is keyed to take a pulley or coupling. A cast iron suction adaptor bolts to the

pump casing and is drilled. A water seal of the ring-packed, gland type is used, incorporating a lantern ring, to which water is fed under pressure from the delivery. This type of sealing is balanced and highly effective. The pump can be supplied with bare shaft only, or with pulley for belt drive from a tractor or other prime mover. Self-contained pumping units are available, the pump being directly coupled through flexible coupling to an engine, or electric motor mounted on an all-steel bedplate.

Portable units consist of the engine and pump mounted on a four-wheeled cushion tyred trailer or on two-wheeled pneumatic tyred high speed towing trailer. (Stand B52.)

THE DISPLAY by GOODENOUGH PUMPS LTD., of 112 Jermyn-street, London, SW1, comprises a comprehensive range of the 'Goodenough' self-priming centrifugal pumps including the recently introduced model 2D2 Diesel. The new range of Goodenough 'Diaphragm' pumps are also on display. (Stand B100.)

THE HYDRAULICS DIVISION of HAMWORTHY ENGINEERING LTD., of Poole, Dorset, is exhibiting a full range of hydraulic pumps, fluid motors and control valves for material handling, earth moving and other mobile equipment. The pumps and motors are of the gear displacement type which ensures freedom from dirt troubles and the ability to withstand shock loads. An interesting feature of the design are the pressure balanced wear plates, a patented device which keeps the volumetric efficiency high at all pressures and accurately maintains fixed clearance between the plates and the gland faces. Pumps are made in various sizes up to 90 gal. per minute capacity and certain models are reversible. Fluid motors are available with outputs ranging from 14 to 50 bhp and all models are reversible. The control valves are available in a range of sizes to control flows up to 80 gpm and up to 2,500 per sq. in. with single acting, double acting or float control plungers all with built in relief valves. The plungers are of hollow construction of patented design incorporating a built-in check valve which ensures that the load is held in position when changing operating positions or even when the power is cut off. Staggered holes in the plunger are arranged to give smooth throttling of the oil flow and consequently accurate control of the device being actuated. (Stand B144.)

TWO NEW PRODUCTS in the Flygt range of fully submersible electric contractors' pumps are shown by INDUSTRIAL PUMPS LTD., of Bentick-road, Hyson Green, Nottinghamshire. The first, 'Bibo 4' (6.5 hp), will pump up to 27,000 gal. an hour or up to a 118-ft. head. It is a compact single unit, easily portable, and can easily be dropped into a sump or flooded area, switched on and left to work day and night unattended. Like other Flygt submersible pumps, 'Bibo 4' will drain down to the last inch of water, continue to run on snore without damage or overheating, then start to pump again —without repriming—as the water rises. It will handle up to 20 per cent suspended solids with particles of up to 3/16 in.

Another pump by Flygt International, of Stockholm, is the new 'GP' sump pump. This is the really up-to-date answer to problems of sub-surface water, rain or spillage at levels lower than the normal drainage system. It does not take up valuable space, but is set at the bottom of a drainage sump beneath the floor and connected to the sewage mains by a normal pipe connection. With the sump cover replaced, the 'GP' is invisible; for inspection purposes the pump is easily raised. This is possible because the pump is a single compact submersible unit containing motor, shaft, pump housing and electrical connections. The pump can be used indoors or out, in such situations as lift shafts, garages, excavations, cellars and underpasses. It will also handle moderate amounts of suspended or dissolved matter, if they are not too abrasive, for its impeller will pass sludge and even textile fibres. Installation is simple, the only requirements being a concrete sump, an electric cable, and a connection to the drainage system at any chosen level. The Flygt 'GP' pump has a one-hp electric motor wound for voltages of 220/380, 440/500, or 550, protected from the water by two end-face shaft-seals with an oil chamber between. The casing is of cast iron, and the vital parts in contact with fluid are of high-grade Swedish stainless steel. The pump's base incorporates a strainer. It is available in two sizes—the 'GP-32' for a 1¼-in. connection, and the 'GP-50' for a 2-in. connection. Industrial Pumps Ltd. are the only agents for Flygt pumps in the United Kingdom. (Stand C10.)

## Scaffolding and Hoists

A. C. E. MACHINERY LTD., Porden-rd., Brixton, London, are exhibiting a comprehensive range of plant and machinery. The range includes personnel hoists, designed for use on multi-storey contracts for conveying supervisory staff and workmen: concrete elevators for placing and discharging at heights of up to 500 ft. and scaffold hoists for handling all types of building materials, including bricks, mortar and tiles. These are ideally suited for use in confined areas. (Stand A88.)

ARNHOLD BUILDING BRACKET CO. of 47 Hillcroft-crescent, London, W5, are showing a new system of scaffolding. The system makes use of special sockets which are firmly located in the fabric of the building. Supporting brackets, which are really the foundation of the system, are then anchored to the wall by locking the horizontal member into the permanently fixed socket. This enables scaffolding to be erected without any obstruction at ground level and it can be done quickly and safely by unskilled labour. The sockets, incidentally, are sealed when not in use and are practically unnoticeable on the face of the building. (Stand B142.)

*The basic unit of the Arnhold scaffold*

BRITISH HOIST AND CRANE CO., LTD., of Compton, Berkshire, have a power winch and scaffold jib, the 'Saga Junior,' which could prove useful on any site where a small capacity hoist is preferred, or if an extra hoist is needed for immediate and speedy erection at strategic positions. It enables the tower hoist to be dismantled earlier in the final stages of building, and this is particularly useful on those sites where hoists may be transferred from one site to another. (Stand B16.)

MILLS SCAFFOLD CO. LTD., Hammersmith Grove, London, W6, are exhibiting for the first time their Super Maxim shuttering panels which are protected and reinforced with 'E' profile galvanised steel trimming. The advanced panel construction gives greater strength and longer life. Panels are constructed of softwood planks, solid butt jointed and high frequency glued, giving an impervious and alkali resistant joint. The 'E' profile steel protection is countersunk into the timber at both ends. Also shown are 'Pecco-Beam' horizontal shoring; the V800 adjustable truss; the 'Self-Lock' scaffolding system; and hollow mould floors. (Stands D62 and DG43.)

RAPID METAL DEVELOPMENTS, LTD., 209 Walsall-rd., Birmingham, 22B, are showing their complete range of standard formwork suitable for straight walls, circular tanks and 60° hoppers. Soffit formwork on display covers a range of adjustable floor centres for all spans, lightweight steel soffit panels and adjustable props. New items include an adjustable beam clamp, a new range of external corner panels which can be used for column shuttering and, of particular interest, a new light Trishore of novel triangular construction that will support 16 tons at 25 feet. The company are also supplying a 73 ft. span double girder arch of DSL.500 girders over the main entrance road leading to the proving ground. (Stand A56.)

J. W. RAYLOR & CO. (ENGINEERS) LTD., of 59, Beavers Lane, Hounslow, Middx. are showing for the first time the full range of Rabro drop-forged scaffold fittings, Gravlock scaffold fittings and other items of non-mechanical building plant and equipment. (Stand B126.)

STERLING-SAFWAY of Caxton-street, London, SW1, are exhibiting their standard equipment for access and load bearing. These include load bearing tables which are designed specially for the shuttering to reinforced concrete, with which it has been possible to cut down the overall cost of equipment, shuttering, and labour, by one-third: a new fabricated hoist tower which has a minimum of parts and no loose fittings, and an entirely new application of special polythene panels which, together with Safway standard equipment, make it possible to enclose any small or large area so that the area

inside still has natural light and is not affected by extreme climatic conditions. (Stand A122.)

THE BRIDGES on the Exhibition site which are to be used as viewing platforms are a typical example of multi-span Bailey bridges on Bailey piers. They were erected by THOS. STOREY (ENGINEERS) LTD., of 8 South Wharf, London, W2. The bridges were constructed in skeleton form bay by bay on the high ground and progressively launched forward over rollers on the high ground and on the pier tops. Once in position the rollers were removed and the spans jacked down on to their bearings. Decking was laid direct from the delivery vehicles.

All Bailey components have 100 per cent recoverability. As an example of this, the present bridges will be dismantled at the end of the exhibition and shipped to the USA and Canada where the various components will be employed in entirely different structure.

## Miscellaneous

THE STAND of the ACRON GROUP, Moorhall-rd., Harefield, Middlesex, is of 110 ft. x 45 ft. area upon which is displayed a representative variety of the company's products. One of the foremost exhibits illustrates a standard batching plant for use either on civil engineering contracts or for the production of ready-mixed concrete. It consists of three 15 cu. yd. capacity aggregate bins, each with a 1,500-lb. capacity weigh hopper utilising the hydraulic load cell method of weighing, and a cement silo. Aggregates from the weigh hoppers are discharged on to a horizontal trough belt conveyor, which in turn transfers the material to an elevated trough belt conveyor feeding direct into a standard pan-type concrete mixer

*One of the side tip buckets exhibited by T. T. Boughton*

elevated on a suitable structure to any height required.

A 15-ton capacity steel cement silo with aeration equipment situated on the mixer structure, adjacent to the mixer, conveys cement via an electrically-operated screw-type conveyor to a weigh hopper suspended over and feeding direct into the concrete mixer. Control of the plant can be undertaken by one man situated at a central electrically-operated console unit positioned on the mixer structure. Aggregate bin and weigh hopper gates are pneumatically operated and the weight of each material is registered on individual weigh dials positioned over the console unit. (Stand A2.)

ARNOLDS (BRANBRIDGES) LTD., of East Peckham, Tonbridge, Kent, are exhibiting their Gaspak portable flame cutting equipment. This is designed to be worn on the back of the operator. There are no projecting parts, all valve handles and regulator controls being in a guarded position. The gases used are oxygen and propane and the regulators for these are pre-set. The unit can be operated in any position. (Stand B112.)

ATLAS COPCO (GREAT BRITAIN) LTD., of Maylands Avenue, Hemel Hempstead, Herts, are showing portable air compressors, rock drills, shovel loaders and stationary air compressors which can be easily mounted on construction sites where a lot of compressed air is needed. Both reciprocating and screw compressors are included in the range of portables on show. Representing the former type will be the two-wheel machines in the VT series with air deliveries of 110, 140, 220 and 290 cfm at 100 psi pressure. These compressors have many points to recommend them. Their compressed air output per unit weight is high and they are extremely easy to manhandle. For bigger air deliveries there are two portable screw compressors which will deliver 365 and 600 cfm at 100 psi. (Stands A76 and PG3.)

INCLUDED IN THE display of T. T. BOUGHTON & SON LTD., Amersham Common, Bucks, is a side tip bucket fitted to an International Harvester Drott tractor. The bucket will be one of a large range of such units available for most types and makes of tractor loading shovels. Some of these side tip buckets are new and have not been exhibited before. (Stands C6 and PG5.)

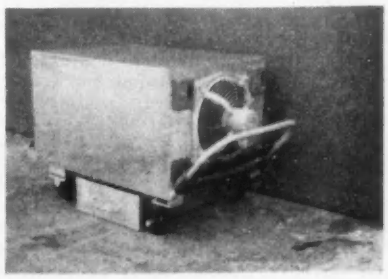
J. C. BAMFORD (EXCAVATORS) LTD., of Lakeside, Rocester, Staffs., are exhibiting for the first time, the JCB4 excavator. It is fitted with a new 2-lever control, which increases the output of the excavator by 15 per cent, provides a more sensitive control and a faster work cycle. The JCB4 has a tear-out force of 22,000 lb. and will excavate to a depth of 16 ft. with extension. A 16 ft. wide 'A' Frame ensures the maximum of safety and stability when digging. For ease of transport on site 21 in. ground clearance is provided and the machine is fitted with a 70-ton front axle. (Stands D36 and PG 127.)

BRITISH ROPES LTD., of Doncaster, are demonstrating a new end use for their products. Their stand is built on the Jawerth system, a Swedish design for large span roof structures. Among the advantages claimed for this system are that it results in lower building costs and a rigid structure in which all members are in permanent tension. It gives a clear span, uncluttered by supporting columns, and holds small fire hazards. It is simple to erect and maintain and some attractive shapes can be constructed with its aid. (Stand A32.)

C. E. T. (PLANT) LTD. of Abbey-rd, Park Royal, London, NW10, are showing, amongst other equipment, the 'Delmag' diesel pile hammers. These operate on the kick-atomising principle which permits the full utilisation of the energy produced by the falling ram (piston) and the combustion pressure of the explosion, so greatly increasing the efficiency of the hammers. Delicate ignition systems or high pressure injection systems are not used but a low pressure fuel injection pump to measure the correct amount of fuel required per blow is used on the hammers. (Stands C16 and PG31.)

THE CONCRETE PUMP CO. LTD., 4 Stafford-terrace, London, W8, is showing a new type of hydraulic concrete pump. It is composed of a pumping unit and a separate power unit, each being mounted on a single axle with rubber wheels. The pumping unit consists of a main cylinder, in which a 'free-floating piston' (i.e. entirely free of any fixed rods) is moved to and fro through pressure and suction of a multi-stage centrifugal pump. The piston is operated by water pressure. The closure between the pump hopper and main cylinder, and between main cylinder and pipeline is operated through a specially designed slide valve made of abrasion resisting steel, which is readily accessible for servicing. The operation of the slide valve, and that of the valves controlling the reversal of the flow of water to and from the centrifugal pump, is achieved hydraulically through magnetic switches situated at the top and bottom of the main cylinder, which receive their impulses through a magnet attached to the piston. While fully automatic, the whole unit can also be manually operated and controlled. The pump has a capacity of 13-32 cu. yd. per hour, depending on the type and quality of concrete and distances and heights pumped. The pumping unit weighs approximately 2,900 lb. while the power unit weighs approximately 4,600 lb. This unit is so designed that it is possible, during pumping operations, to isolate the pipeline from the pump and to return concrete from the main cylinder into the hopper. (Stand B22.)

A NEW MACHINE TOOL, developed to produce floors of good quality and strength can be seen at the stand of COLUMBUS-DIXON LTD., Wembley, Middlesex. This is a concrete compactor power float and its use is said to counter crazing, dusting and disintegration of surfaces under traffic. In addition, placing and finishing operations can be speeded up considerably, utilising the full working day.



*The new Trembath dehumidifier*

Leaner and coarser mixes are also employed, so effecting considerable savings in cement and other materials.

Dixon 'No Screeds' concrete is a process by means of which a perfect finish is produced direct on to over-site concrete or structural slabs, thus eliminating the need and cost of screeds. The surface so produced is suitable either as a wearing finish or for the over-lay of tiles, woodblock, linoleum, etc. (Stand A46.)

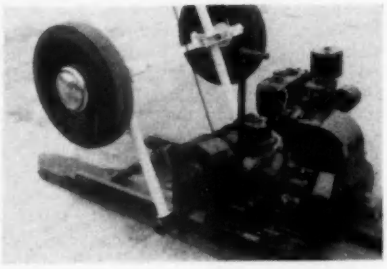
CUFFLIN HOLDINGS LTD., 64-66 Battersea High-st., have several new exhibits on their stand including a prestressing jack for single wires which is easy to handle and requires a minimum of labour operations. The 5 in. stroke tube jack weighs only 10 lb., is 14½ in. long and 2¼ in. in diameter. The 10 in. stroke jack is similar, but weighs 13 lb. and is 19½ in. long. In addition there is a jack for large strand wire which is currently being used on the Hammersmith flyover. This has a stroke of 10 in., is approximately 24 in. long over the temporary grip and weighs only 96 lb. (Stand B118.)

ALAN R. DAVIES LTD., 20 Whiteladies-road, Bristol, 8, are showing the 'Multibloc' system of block making and handling. The equipment incorporates the very latest techniques of block making and handling. No pallets are used, manual handling of single blocks is eliminated and the blocks are moved once only before they are ready for sale. The equipment is entirely of British design and manufacture. (Stand B12.)

THE EQUIPMENT & ENGINEERING CO. LTD., 2-3 Norfolk-street, London, WC2, are showing some sixty mechanical and hydraulic jacks, including a new 50-ton jack with exceptionally long lift. In addition, a complete range is being shown of the Simplex centre hole jacks up to 100-tons capacity, for applications involving pulling, pushing, stressing and extracting. The load can be taken through the centre of the jack thus avoiding considerable rigging—often a pull rod is the only requirement if the material itself is too large to be placed through the centre hole of the jack. (Stand B124.)

FIRTHBOURN LTD., 124 Portland-road, London, SE25 are showing and demonstrating a complete range of portable electric power tools made by Perles Electric Tools & Motors Ltd., of Switzerland. Two of particular interest are the HSW 55, a high speed cutting and grinding machine operating at 6,200 rpm using 9 in. diameter special reinforced abrasive cutting wheels and grinding discs with an output of 1¼ hp weighing only 16¾ lbs. The main application is cutting chases in brick, breeze and concrete without vibration and without need for making good as the cut is perfectly clean and exactly where required. The second tool is the US 55 slow speed grinding, sanding and polishing machine with built-in water feed operated by a tap which feeds water through the spindle at the required rate. This tool is used for slow wet grinding in the stone industry and for facing up terrazzo and similar surfaces. Stone grinding rings with vibration free holders are used or alternatively resin bonded flexible abrasive discs with a rubber backing pad. (Stand B34.)

AN INTERESTING new item, exhibited by GREENHAM EQUIPMENTS LTD., Clayton-rd., Greenford, Middlesex, is the Trembath Dehumidifier. This dries new buildings by extracting moisture from the air as opposed to the application of direct heat. It is claimed to extract up to 5 gallons of water in 24 hours.



*The 'Wayfarer' percussion drill*

Moisture laden air is drawn over the evaporator and cooled to a temperature below its dew point. This condenses the moisture, which is allowed to run into a container. The air is then passed over the condenser and the dry bulb temperature raised. The air is further heated by means of a thermostatically controlled electric heater and, as a result, dry warm air is dispersed and re-circulated. (Stands D28 and PG49.)

JOY-SULLIVAN LTD., 7 Harley-st., London, W1, are displaying a selection of products from the range of air compressors and rock drilling equipment which the company manufactures for the civil engineering and construction industries. Two of the exhibits have not previously been shown at any exhibition in Britain. The first of these is a completely new design of rotary vane portable air compressor, the Airvane RP.260, which has a capacity of 260 cfm free air delivered at 100 psi. The model shown has a Ford diesel engine, but Ruston or Perkins engines can be fitted. An unusual feature of the design is the absence of the conventional air receiver, this function being carried out within a specially designed adaptor housing which incorporates the oil reservoir and air/oil separator. This enables the overall size of the compressor to be reduced. The weight saving is also considerable, the unit weighing only 3,500 lb. dry. The second of the new exhibits is a self-propelled crawler track-mounted carrier with a 450 Dual Rotation drill of 4½ in. bore. The drill is capable of drilling holes to a depth of 40 ft. (Stand A10.)

THE INTERESTING FEATURE of the aluminium ladders, exhibited by F. PARKER AND CO., LTD., Carlton Bridge Wharf, Great Western-rd., London, W9, is the locking of the rungs in the styles. The ridges of the rungs fit into serrated holes so that they can never be turned. On the rope operated ladders, the lock has been designed for strength and ease of operation. It works by its own weight and is very nearly foolproof. (Stand B120.)

PERMAFENCE LTD., Taplow, Bucks, are using their stand as their exhibit since it is entirely constructed of 'Polysash' panels. These panels are 6 ft. square and made up of two ¾ in. x 1½ in. sawn Western Red Cedar frames securely clamped together, sandwiching between them a single sheet of 500 gauge BCL polythene film. (Stand A36.)

THE PHILLIPS DRILL CO., Station-rd East, Oxted, Surrey, are exhibiting the 'Redhead,' a self-drilling hollow core steel expansion shell which cuts its own hole into concrete. It is then expanded with a simple plug to form an anchor with excellent holding power. It is easy to use, economical and efficient. (Stand A84.)

THE PILCON 'Wayfarer' drilling rig, which is being shown by PILING AND CONSTRUCTION CO. LTD., 111, St. James's-rd., Croydon, Surrey, was developed to satisfy the demand for a light, mobile unit with ample capacity and strength. The power unit is optional, but is normally a standard Petter AVA1 or PH1 to a 15 : 1 reduction worm gearbox. The drum shaft is integral with the wormwheel eliminating the usual layshaft. This drive reduces to a minimum the transmission of shock load back to the engine.

The winch is mounted on ball bearings for complete freedom of unspooling. A hydraulically operated expanding shoe clutch of ample capacity and positive action is used and a standard robust band brake gives the utmost factor of safety. This arrangement allows for very fast working and the very small force required to operate the clutch reduces operator fatigue to a minimum. The unit may be supplied basically as a winch or, as the illustration shows, as a complete rig. (Stand A75.)

PORTASILO LTD., Blue Bridge-lane, York, are showing the full range of standard silos for bulk cement, together with ancillary equipment including the Autofeed and pneumatic blowing units. (Stand A50.)

THE cabs of REDVALES LTD., Hatherton-st., Walsall, Staffs., are designed to provide greater comfort and protection under all climatic conditions. The construction introduces a panoramic opening windscreen of safety glass or Perspex extending across the full width of the driver's cabin. It provides all-round vision and eliminates blind spots. The self-supporting wide roof creates a roomy driver's cabin which may be covered up by side and rear aprons so as to make it fully weatherproof. A convenient front entrance is provided (just one single manipulation is required). Shock absorber springing on either side forms the only connection between cab and the vehicle. It is rigidly attached to the mudguards and elastically absorbs all shocks even when working on the roughest ground. (Stand B64.)

ON THEIR STAND at the Exhibition, TYRESOLES LTD., of Wembley, Middlesex, are showing examples of tyre damage, which, although apparently beyond repair, can successfully and economically be put back into reliable service. Smooth tyres can now be remoulded to give new tyre life over again, but at a saving of about 50 per cent of new. (Stand B24.)

THOS. W. WARD LTD. are showing a 'Track-Marshall,' powered by a Perkins four 270D diesel engine, developing 55 bhp at 1,600 rpm. In addition the new 'Amaeo' builders hoist, of Swedish manufacture, can be seen. This is a twin-cage model, type M.7, free standing height 37 ft. (Stand A20.)

# Crown 75 was too good... it earned us a black mark.

The demand for Crown 75 surprised even us:—and our trouble has been to keep pace with it. As a result we have got black marks for delivery. That phase is now over. We began making Crown 75 two years ago on one plant; a year ago we got a second into production; we now have three. Now, we *can* keep pace and can offer short deliveries. In fact, we are ready to deliver Crown 75 when you want it, where you want it and in any quantity you ask for. So you, the architect can specify Crown 75 with certainty of not having to accept 'or equal'—for there *is* none.

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Unitex board is available in a wide choice of colours, and can be with tiled, plain or perforated surfaces.

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House purchasers get irritated by the "extras" they have to pay for—a cylinder Jacket should not be an extra—it costs so little that it can be included in the purchase price.

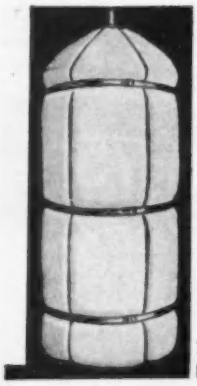

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*Photo by courtesy of Guardian Journal Nottingham*

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# Book Reviews

## Graphic Statics ; Applied Building Construction ; Guide to BS Code for Prestressed Concrete ; Home Decoration ; Practical Plumbing Guide ;

**** Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include postage on books to the value of 10s., 9d.; over 10s., 1s. 6d.) should accompany the order.*

GRAPHIC STATICS. By Cyril S. Benson. (London: B.T. Batsford Ltd.) Price 25s. net.

CYRIL BENSON has filled an important gap in the available literature on structural engineering. Graphic statics is a time-saving and reliable method of working out internal forces in a determinate frame and the present volume is the first to be written wholly on the subject to be published in Britain. Mr. Benson goes straight to the point; his introductory remarks merely describe simple rules of procedure to be followed when the graphical method is to be used. He then proceeds to 78 worked-out fully diagrammatic examples ranging from simple valley and platform roof trusses to the more complicated and large span types, such as the sub-divided, triangular Baltimore girder or the K-girder with parallel chords. There are also examples of polygonal girders, wing girders, cantilever roof trusses, lattice girders, three-pinned arch and cantilever bridges, the Warren girder with vertical suspenders and a cantilever pier.

In each example there is a fully dimensioned sectional diagram followed by an annotated force diagram with a table of forces for each member. The author, who is a teacher of structural engineering, has produced a book of a somewhat more advanced standard than those hitherto available at 'mechanics' level. It is suitable for the qualified man in engineering, architecture, surveying and building, as well as for the student of these professions. In some respects it could be helpful in first-year work.

APPLIED BUILDING CONSTRUCTION—A THIRD YEAR COURSE. By Anthony Medlycott. (London: Chapman & Hall Ltd.) Price 25s. net.

THIS VOLUME is the third in a series based on a course in 'one-book-a-year' form and follows the same pattern as the previous two. It contains useful, collated information for the practising architect, surveyor or builder, and these three companion volumes make a complete course for study and post-graduate reference. The text opens as a direct continuation of the first and second year courses, being illustrated similarly with excellent detail drawings, axonometrics and profiles.

Continuing the section on foundations, Mr. Medlycott deals with the more advanced rafts and piles, including sheet piling and underpinning. In the next section the problem of temporary support —scaffolding, formwork and shoring—is discussed and there are some particularly good descriptions of raking and flying shores. Subsequent chapters cover load-bearing walls, steel and timber framed buildings and their claddings, panel walls and partitions, roofs—from simple tie-beams to the more complicated mansards and truncated structures—dormer windows, and roof lights. The author here considers the important question of fire resistance with regard to selection of coverings and linings. Other roof structures considered are precast concrete ribbed units and steel trusses. Reference is also made to patent glazing techniques.

Other chapters deal with windows, stair construction, and miscellaneous finishes for floors, suspended ceilings, various types of wood and hardboard panelling, hot-water service and heating, drainage, and other external work. Each chapter is prefaced by a brief description of its scope and concludes with a short bibliography of relevant books for further and more detailed reference. There is an adequate index but glossaries, included in the previous volumes, have been omitted. Since frequent reference is made to each of the preceding volumes, and since in any case the present text is more advanced, familiarity with them is a prerequisite. This series has been prepared by an architect with much teaching experience and one particularly noticeable and refreshing feature, sadly lacking in other books on building construction, is the complete absence of the dull 'specification' approach. Mr. Medlycott's text is eminently readable and his drawings contain all essential data, being in most cases self-explanatory.

A GUIDE TO THE BS CODE OF PRACTICE FOR PRESTRESSED CONCRETE. By F. Walley and S. C. C. Bate. (London: Concrete Publications Ltd.) Price 12s. 6d. net.

THIS BOOK is a commentary on the British Standard Code of Practice CP 115 (1959), 'The Structural Use of Prestressed Concrete in Buildings,' the authors being prominent members of the committee responsible for the compilation of the code. The latter is reproduced in full and comments and explanations follow each clause. Those recommendations concerned with aspects of prestressed concrete construction which are not common to other forms of concrete construction are amplified.

The subject matter is dealt with under the headings of definitions and symbols, materials (particularly the properties of prestressing steel), design stresses, the design of structural works subjected to pure bending or direct compression, fire resistance, methods of prestressing, practical considerations, inspection and testing. A concise bibliography is given and there are twelve tables in addition to those in the Code itself, and twelve diagrams and charts containing useful data for the designer particularly in respect of eccentrically-loaded members. Confusion is avoided since the terminology used in the commentary is identical with that used in the Code.

HOME DECORATING BY MODERN METHODS. By W. A. G. Bradman (London: Country Life Ltd.) Price 15s. net.

WHETHER HOME DECORATING is a relaxing hobby or a much dreaded and ghastly perennial chore, advice is always well received. A whole host of existing literature and the ubiquitous do-it-yourself publications will cause many to look askance at any new offering. This volume does, however, present an entirely new approach, bringing us up to date in the use of new materials and fresh working techniques. In a neatly set out and concisely written text Mr. Bradman explains the importance of preparation and the choice of paint schemes. He introduces the reader to the mysteries of thermal and acoustic insulation, and shows how modest renovations and repairs can effectively be carried out. There is an excellent wallpaper calculation chart and a table of insulation materials—the number of brand names included in the latter is more suited to please a specification writer and will almost certainly turn a harassed homemaker blue with frustration. A useful book about an exhausting subject and one that will help to prevent those tortuous predicaments so aptly described in a recent 'Punch' cartoon. With a little ingenuity it should not be necessary to use your wife as a pasting table or to spend the night huddled in a cupboard while the newly varnished floor dries out.

THE PRACTICAL PLUMBING GUIDE. By James M. Haig. (London: Stanley Paul and Co. Ltd.) Price 21s. net.

THE PROFUSELY ILLUSTRATED TEXT of this excellent volume undoubtedly justifies the author's adjective 'practical.' Domestic plumbing installations in this country leave much to be desired and whilst somewhat fatuous comparisons with continental practice may produce a sense of complacent satisfaction it should not detract from the truth. Bad plumbing can obviously be avoided if all concerned, from the architect to the householder himself, were better informed. Mr. Haig provides this information in a handy guide which will be of value to the architect, the journeyman plumber, the apprentice, and to the householder. First it deals wholly and in detail with one type of installation; second, everything explained is within the resources of modest expenditure; and finally a reason is given for each step suggested and an alternative method proposed. A chapter on Government improvement grants is a further point in its favour.

The book deals with the complete plumbing installation of a normal dwelling house. Particular attention is given to small-bore central heating and there are sections on water softening, electric water-heaters, frost precautions, plastic plumbing, fittings, fault-finding, repairs and maintenance. There is a useful chapter on roof weathering, and finally the author draws attention to the Government grants for plumbing improvements available to owners of old houses which still have a useful life. The text is admirably illustrated with sectional drawings and photographs and there is an adequate index. A. D.

# THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

## AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

| | | £ | s. | d. |
|---|---|---|---|---|
| Pit Ballast | per yd. | 1 | 5 | 5 |
| Pit Sand | " | 1 | 3 | 8 |
| Washed Sand | " | 1 | 6 | 9 |
| ¾ in. Shingle | " | 1 | 4 | 3 |
| ¾ in. Broken Brick | " | 1 | 0 | 9 |
| Pan Breeze | " | 1 | 1 | 6 |
| Fine or Coarse Foamed Slag Aggregate | per ton | 3 | 8 | 0 |

2 yds. of fine and 2.6 yds. of coarse per ton.

## CEMENT, etc.

Including non-returnable jute sacks or paper bags.

| | | £ | s. | d. |
|---|---|---|---|---|
| Best British Portland Cement. Standard Specification delivered Charing Cross area. | | | | |
| 6-ton loads and upwards, site | per ton | 5 | 15 | 3 |
| 1 to 6 tons, site | " | 6 | 7 | 3 |
| Rapid-Hardening Cement in 6-ton loads and upwards to site | " | 6 | 5 | 9 |
| 1 to 6 tons do. site | " | 6 | 17 | 9 |
| Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices. | | | | |
| Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices. | | | | |
| Red, Buff or Khaki Colorcrete in 6-ton lots | " | 8 | 15 | 3 |
| Other colours according to colour. | | | | |
| In 4-ton lots from 313s. 3d. to 711s. 3d. per ton. | | | | |
| White Portland Cement | " | 14 | 0 | 9 |
| Under 1 ton | per cwt. | | 17 | 1 |
| 417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards | per ton | 7 | 7 | 9 |
| Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement. | | | | |
| Cullamix Tyrolean Finish, £11 13s.3d. to £14 8s.3d. (1-ton loads and upwards). | | | | |
| Ciment Fondu and Lightning Brands High Aluminous cement, 6-ton lots and up | " | 15 | 14 | 6 |
| Stourbridge Fireclay, 6-ton loads at Railway Depot, London | " | 6 | 19 | 0 |
| Stourbridge Fireclay, 6-ton loads (London sites) | " | 7 | 12 | 0 |
| Moler Mortar Powder for Flue Bricks (London sites) | per cwt. | 1 | 6 | 0 |

## BRICKS

| Full Loads | | £ | s. | d. |
|---|---|---|---|---|
| First Hard Stocks | per 1,000 | 16 | 19 | 6 |
| Second Hard Stocks | " | 14 | 18 | 6 |
| Mild Stocks (Kiln Burnt) | " | 11 | 5 | 0 |
| Mild Stocks | " | 11 | 0 | 0 |

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

| | | | | |
|---|---|---|---|---|
| 2½ in. Nominal Fletton Bricks to sites in W.C. district : | | | | |
| Commons | " | 6 | 12 | 0 |
| Cellular Commons | " | 6 | 12 | 0 |
| Keyed do. | " | 6 | 14 | 0 |
| Rustics | " | 8 | 12 | 0 |
| Cellular Rustics | " | 8 | 12 | 0 |
| Single Bullnose Commons | " | 8 | 14 | 6 |
| Sandfaced | " | 9 | 12 | 0 |
| Tuscans | " | 10 | 7 | 0 |
| Saxons | " | 10 | 15 | 0 |
| Golden Buffs | " | 11 | 2 | 0 |
| Dapple Light Facings | " | 11 | 9 | 6 |
| Heather Facings | " | 11 | 5 | 0 |
| Best Blue Pressed Staffs (London sites) | " | 33 | 4 | 9 |
| do. Bullnose (London sites) | " | 34 | 3 | 9 |
| Blue Wire Cuts (London sites) | " | 29 | 9 | 6 |
| Midhurst Lime Bricks (London sites) | " | 11 | 13 | 0 |
| Uxbridge Whites (London sites) | " | 11 | 8 | 6 |
| Special Purpose Sandlime Bricks (London sites) | " | 9 | 2 | 0 |
| Best Stourbridge Fire Bricks : | | | | |
| 2½ in. (London stations) | " | 32 | 14 | 0 |
| 2½ in. (London sites) | " | 33 | 2 | 9 |
| 3 in. (London stations) | per 1,000 | 39 | 4 | 6 |
| 3 in. (London sites) | " | 39 | 15 | 0 |
| 2½ in. Moler Flue Bricks (London sites) | " | 31 | 0 | 0 |
| 2½ in. Machine-made Sandfaced Red Facings (London sites) | " | 18 | 19 | 0 |
| 2½ in. Machine-made Multi Red Facings (London sites) | " | 19 | 4 | 0 |
| 2½ in. Hand-made Sandfaced Red Facings (London sites) | " | 20 | 17 | 6 |
| 2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites) | " | 20 | 17 | 6 |
| Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites) | " | 21 | 5 | 0 |
| Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites) | " | 21 | 5 | 0 |
| Rubber Bricks for gauged arches (London sites) | " | 52 | 5 | 0 |
| 2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites) | " | 16 | 15 | 0 |
| 2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites) | " | 18 | 2 | 6 |
| Glazed Bricks (London sites), White, Ivory, Brown: | | | | |
| Stretchers | " | 64 | 0 | 0 |
| Headers | " | 63 | 0 | 0 |
| Quoins, Bullnose and 4½ in. Flats | " | 80 | 0 | 0 |
| Double Stretchers | " | 85 | 0 | 0 |
| Double Headers | " | 77 | 10 | 0 |
| One side and two ends | " | 87 | 0 | 0 |
| Two sides and one end | " | 89 | 10 | 0 |
| Splays and Squints | " | 83 | 0 | 0 |

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 47½% for Best quality and plus 47½% less 10% for Second quality.

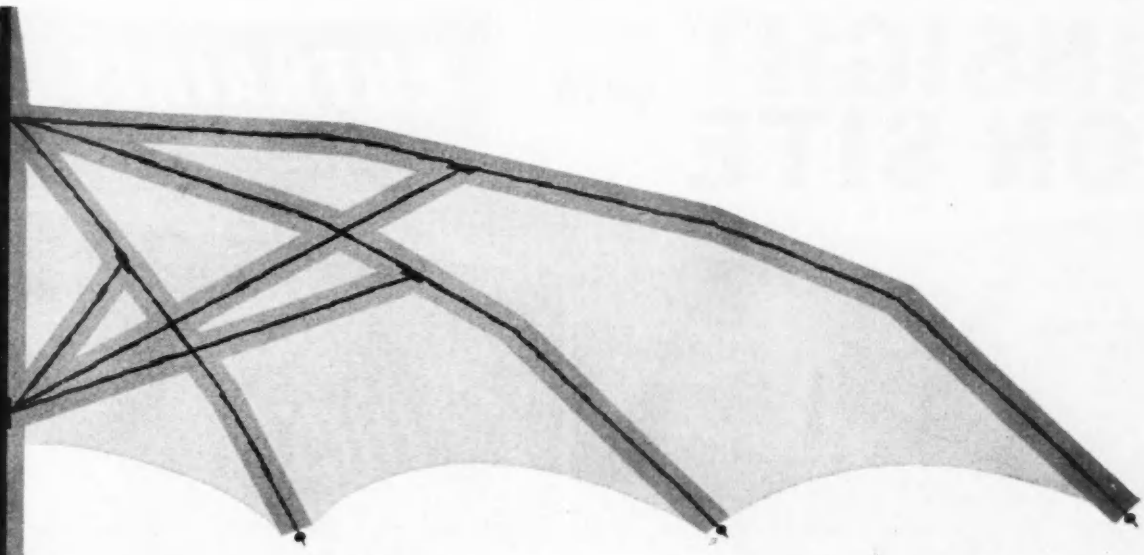
## PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District).

| | | | £ | s. | d. |
|---|---|---|---|---|---|
| **Hollow Clay Partition Blocks (Keyed)** | | | | | |
| Minimum lorry loads | | | | | |
| *2½ in. | 140 yds. | per yd. sup. | | 4 | 7 |
| **Building Blocks (Keyed)** | | | | | |
| *3 in. (6 cavity) | 110 yds. | " | | 5 | 9 |
| *4 in. (6 cavity) | 90 yds. | " | | 7 | 3 |
| 6 in. (8½ in. × 5½ in.) | 1,250 blocks | per 1,000 | 28 | 9 | 0 |

* Half blocks at no extra charge.

| | | | | | |
|---|---|---|---|---|---|
| **Clinker Concrete** | | | | | |
| 2 in. | 100 yds. | per yd. sup. | | 3 | 11 |
| 2½ in. | 85 yds. | " | | 4 | 6 |
| 3 in. | 75 yds. | " | | 5 | 6 |
| 4 in. | 55 yds. | " | | 6 | 11 |
| **Cranham Terra Cotta** | | | | | |
| 2 in. | | " | | 7 | 5 |
| 2½ in. | | " | | 8 | 4 |
| 3 in. Load bearing quality | | " | | 9 | 6 |
| 4 in. do. do | | " | | 11 | 6 |
| **Moler Partition Blocks** | | | | | |
| 2 in. | 150 yds. | " | | 12 | 9 |
| 2½ in. | 120 yds. | " | | 13 | 9 |
| 3 in. | 100 yds. | " | | 14 | 9 |
| 4 in. | 90 yds. | " | | 17 | 0 |
| **Lightweight Concrete Building and Partition blocks of Various Sources of Manufacture** | | | | | |
| 2 in. | 100 yds. | per yd. sup. | | 5 | 4 |
| 2½ in. | 80 yds. | " | | 6 | 5 |
| 3 in. | 65 yds. | " | | 7 | 5 |
| 4 in. | 50 yds. | " | | 9 | 4 |
| 4½ in. | 44 yds. | " | | 10 | 2 |
| 6 in. | 33 yds. | " | | 14 | 5 |
| **Thermalite-Ytong Partition Blocks** | | | | | |
| 2½ in. | 144 yds. | " | | 7 | 0 |
| **Thermalite-Ytong Load-Bearing Insulating Blocks** | | | | | |
| 3 in. | 120 yds. | per yd. sup. | | 8 | 5 |
| 4 in. | 90 yds. | " | | 11 | 0 |
| 5 in. | 72 yds. | " | | 13 | 9 |
| 6 in. | 60 yds. | " | | 16 | 6 |
| 8½ in. | 42 yds. | " | 1 | 3 | 8 |
| **Floor Blocks and Filler Tiles** | | | | | |
| Floor Blocks 12 in. × 12 in. delivered in full lorry-loads : | | | | | |
| 3 in. | | per 1,000 | 35 | 14 | 0 |
| 4 in. | | " | 38 | 9 | 0 |
| 5 in. | | " | 46 | 1 | 0 |
| 6 in. | | " | 52 | 12 | 0 |
| 7 in. | | " | 64 | 12 | 0 |
| 8 in. | | " | 75 | 9 | 0 |
| 9 in. | | " | 83 | 2 | 0 |
| 10 in. | | " | 92 | 0 | 0 |
| Filler Tiles in multiples of 10 tiles per 1,000 multiples : | | | | | |
| 12 in. × 3 in. × ⅝ in. | | " | 43 | 13 | 0 |
| 12 in. × 4 in. × ⅝ in. | | " | 75 | 7 | 0 |
| 10 in. × 5 in. × ⅝ in. | | " | 75 | 7 | 0 |

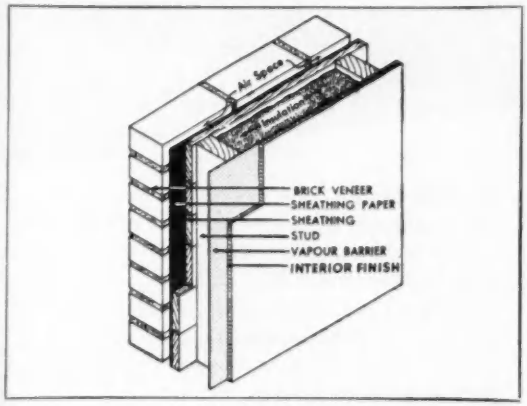


# WESTERN FRAME CONSTRUCTION is the natural way to build things

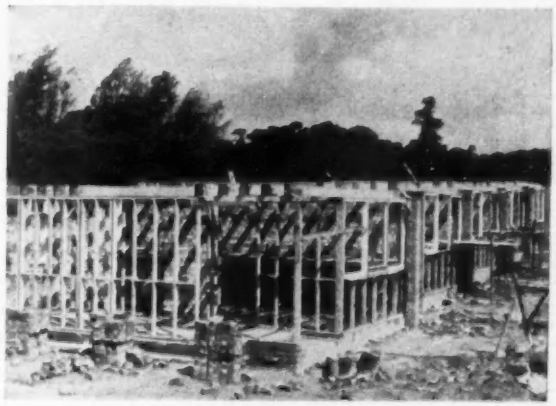
First make a light structural framework. Then enclose it with a suitable cladding. From umbrellas to jet-bombers, that is the efficient way things are built today.

Western frame construction gives maximum freedom of design and a wide choice of cladding. It cuts building time by half, keeps site costs low and provides for simple future extension. Insulation is of a very high order.

Take full advantage of the Western frame construction method by specifying Canadian timbers—durable, attractive Western Red Cedar for cladding, easy handling Pacific Coast Hemlock for structural components.




*A construction detail*

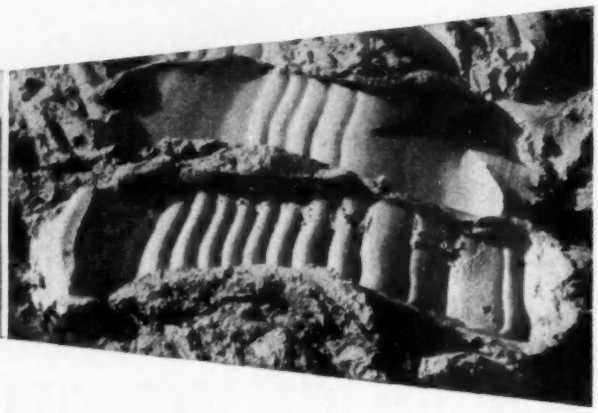


*A typical timber frame construction*

**BRITISH COLUMBIA LUMBER MANUFACTURERS ASSOCIATION**

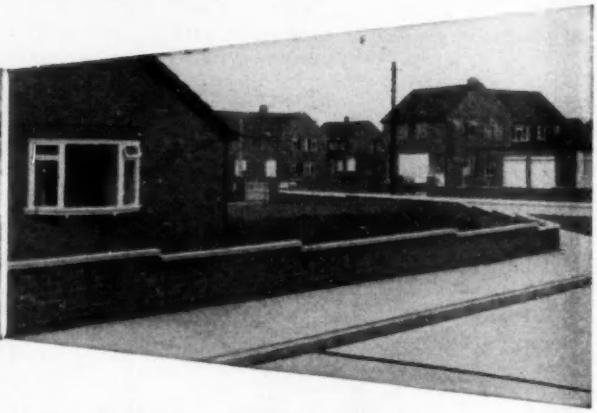
1 GROSVENOR SQUARE, LONDON, W.1

# INSIGHT ON SITE with ENTRAINIT



**DEVELOPED AND PROVED BY HEDLEY RESEARCH** Hedley scientists perfected Entrainit at the Longbenton research laboratories . . . and proved it on sites nationally as well as in such projects as these Longbenton extensions.

**PERFECT MIX—EVERY TIME** Look at the mix you get with Entrainit! Fattier . . . much more workable . . . giving a strong and durable bond. No wonder Entrainit is fast replacing lime and liquid additives!



**DURABLE CONCRETE** . . . Entrainit used at only ¼ oz. (less than 1d.) for 1 cwt. cement makes placing and full compaction easier and gives protection against scaling and water penetration caused by the damaging effects of salt and frost.

**THE FINAL PROOF** Contractors responsible for the development of sites like this have proved for themselves the effectiveness of Entrainit in mortar, plaster and concrete. Only 1 oz. is used per 1 cwt. cement in mortar and plaster and ¼ oz. per 1 cwt. cement in concrete; it costs at most 3d. per oz. It comes in handy 28 lb. cases (there is a 2 lb. trial size too) . . . so it's easy to store and transport.

For further details about Entrainit, fill in this coupon and post to: Bulk Products Division, Thomas Hedley & Co. Limited, Newcastle upon Tyne, 3.

NAME .....

ADDRESS .....

.....

Change to **Entrainit** *and save money on every mix!*

OBTAINABLE FROM BUILDERS' MERCHANTS

## STONEWARE DRAIN PIPES, etc.

Glazed Stoneware Standard List (November, 1956).

| | | 4 in. | 6 in. | 9 in. |
|---|---|---|---|---|
| Pipes, 2 ft. lengths ... ... ... ... | per ft. | 1/8 | 2/6 | 4/6 |
| Bends ... ... ... ... ... ... | each | 5/- | 7/6 | 20/3 |
| Junctions ... ... ... ... ... | " | 8/4 | 12/6 | 27/- |
| Gullies with 4 in. outlets ... ... ... | " | 12/6 | 13/9 | 22/6 |

The following are the percentages to be added to the Standard List (November, 1956) prices delivered London Area.

Delivered ex Merchants Wharf or Depot.

| | Over 2 tons | Over 100 pieces Under 2 tons | Under 100 pieces Under 2 tons |
|---|---|---|---|
| Best Quality ... | −5% | +15% | +20% |
| BSS Best Quality... | +10 %− 5% | +10 %+15% | +10 %+20 % |
| Tested Quality ... | +37½%− 5% | +37½%+15% | +37½%+20 % |
| BSS Tested Quality | +47½%− 5% | +47½%+15% | +47½%+20 % |

| | | £ s. d. |
|---|---|---|
| 3 in. Land Drain Pipes (in 12 in. lengths) ... ... | per 1,000 | 12 10 6 |
| 4 in. do. do. ... ... ... ... ... | " | 16 16 0 |
| 6 in. do. do. ... ... ... ... ... | " | 34 10 0 |
| 9 in. do. do. ... ... ... ... ... | " | 64 19 0 |

## DAMP COURSE

| | | £ s. d. |
|---|---|---|
| Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area ... ... ... ... | per yd. sup. | 3 5 |
| Asbestos base do. 7 lb. per yd. sup. do. do. | " | 5 2 |
| Lead lined bitumen do. 9½ lb. per yd. sup. do. do. | " | 12 2 |
| 18 in. × 9 in. British damp course slates ... ... | per 1,000 | 43 8 11 |
| 14 in. × 9 in. do. do. ... ... | " | 32 8 2 |
| 9 in. × 9 in. do. do. ... ... | " | 18 18 9 |
| 18 in. × 4½ in. do. do. ... ... | " | 19 19 9 |
| 14 in. × 4½ in. do. do. ... ... | " | 15 18 3 |
| 9 in. × 4½ in. do. do. ... ... | " | 10 14 3 |

## STONE

| | | £ s. d. |
|---|---|---|
| Bath Stone | | |
| Monks Park ... ... ... ... ... ... | per ft. cube | 10 3 |
| St. Aldhelm Box Ground ... ... ... ... | " | 11 6 |
| Delivered in railway trucks at South Lambeth B.R. Western Region. | | |
| Doulting Stone Random Blocks. Delivered London area ... ... ... ... ... ... | " | 10 10 |
| Beer Stone. Delivered London area ... ... | " | 10 6 |
| Portland Stone— | | |
| Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region ... ... ... | " | 9 10 |
| Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots. | | |
| 9 in. × 3 in. Rubbed, weathered, throated and stolled cills ... ... ... ... ... ... | per ft. cube | 4 5 10 |
| 12 in. × 6 in. do. do. do. ... ... | " | 3 1 2 |
| 12 in. × 3 in. Plain coping, twice throated ... ... | " | 2 7 6 |
| 12 in × 3 in. Weathered and twice throated coping | " | 3 3 3 |
| 14 in. × 6 in. do. do. do. ... ... | " | 2 17 0 |
| 4½ in. × 9 in. Plinth rubbed on top and face ... | " | 2 11 0 |
| 3 in. sawn two sides Slabs, random sizes ... ... | per ft. sup. | 9 1 |
| Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ... | per ft. cube | 1 11 3 |
| do. do. fair one edge for fair faced brickwork | " | 1 17 0 |
| Hard York— | | |
| 12 in. × 2 in. Square Steps, rubbed on top and edge ... ... ... ... ... ... ... | per ft. run | 11 0 |
| 14 in. × 3 in. Round-nosed Steps, rubbed on top and front ... ... ... ... ... ... | per ft. cube | 2 18 3 |
| 12 in. × 6 in. Plain Steps, rubbed top and front | " | 2 11 0 |
| 2 in. Rubbed and Jointed Paving, given sizes ... | per ft. sup. | 10 3 |
| 2 in. Sawn Paving, edges squared, in random sizes ... ... ... ... ... ... ... | per yd. sup. | 3 12 0 |

## TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

| | £ s. d. |
|---|---|
| Machine-made Pantiles and French pattern Tiles from Lincolnshire district ... ... ... ... ... | 35 16 6 |
| Hand-made Pantiles Berkshire district ... ... ... ... | 64 10 0 |
| Hand-made Double Roman Bridgwater district ... ... | 78 2 9 |
| Hand-made 10½ × 6½ tiles Berkshire district ... ... ... | 18 0 0 |
| Machine-made 10½ × 6½ Staffordshire district ... ... | 17 0 0 |
| Hand-made Hip and Valley tiles per doz. ... ... ... | 1 13 0 |
| Machine-made Hip and Valley tiles do. ... ... ... | 1 12 0 |
| Concrete tiles 10½ × 6½ ... ... ... ... ... ... | 8 10 0 |
| do. Interlocking (49S) ... ... ... ... | 19 16 6 |

NOTE.—Breakage in transit, purchasers' responsibility.

## SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

| | £ s. d. |
|---|---|
| 24 × 12 ... ... ... ... ... ... ... ... ... | 160 4 0 |
| 22 × 12 ... ... ... ... ... ... ... ... ... | 126 15 0 |
| 22 × 11 ... ... ... ... ... ... ... ... ... | 114 15 0 |
| 20 × 12 ... ... ... ... ... ... ... ... ... | 107 5 0 |
| 20 × 10 ... ... ... ... ... ... ... ... ... | 105 0 0 |
| 18 × 10 ... ... ... ... ... ... ... ... ... | 71 5 0 |
| 18 × 9 ... ... ... ... ... ... ... ... ... | 62 14 0 |
| 16 × 10 ... ... ... ... ... ... ... ... ... | 54 15 0 |
| 16 × 8 ... ... ... ... ... ... ... ... ... | 42 18 0 |

NOTE.—Breakage in transit, purchasers' responsibility.

## TIMBER

| | | | £ s. d. |
|---|---|---|---|
| Softwood | Ex Wharf | per standard | £115 to £140 |
| Joinery quality ... ... ... ... | do. | " | £94 — £98 |
| Carcassing quality ... ... ... | do. | " | £112 0 0 |
| 1 in. Tongued and Grooved Flooring | do. | " | |
| Hardwood | | | |
| Mahogany—African S.E. ... ... | do. | per ft. cube | 1 10 0 |
| do. Honduras S.E. ... ... | do. | " | 3 5 0 |
| Oak European S.E. ... ... | do. | " | 2 10 0 |
| do. Japanese S.E. ... ... | do. | " | 3 0 0 |
| do. English Logs sawn ... | do. | " | 2 0 0 |
| Teak 8 in. average S.E. ... | do. | " | 3 17 6 |
| Walnut African Logs sawn ... | do. | " | 1 2 6 |
| Plywood | | per | |
| 6 mm. (¼ in.) Birch Plywood B/BB ... ... | | 100 sq. ft. | 4 6 9 |
| 6 mm. Israeli Gaboon do. B/BB exterior grade WBP (AX100) ... ... ... ... ... | | " | 4 5 3 |
| 18 mm. Birch Blockboard ... ... ... ... | | " | 9 9 6 |
| ¾ in. Douglas Fir Plywood 96 in. × 48 in. Exterior grade WPB (AX100) solid two sides ... ... | | " | 9 6 9 |

## DOORS (in Lots I-II)

| Delivered London area. | | £ s. d. |
|---|---|---|
| 1½ in. 4 Horizontal Panel. Pattern 4 in. deal | | |
| 2 ft. 0 in. × 6 ft. 6 in. ... ... ... ... ... | each | 1 16 0 |
| 2 ft. 3 in. × 6 ft. 6 in. ... ... ... ... ... | " | 1 17 6 |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | " | 1 18 6 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | " | 2 0 6 |
| 2 in. do. but top panel open. Pattern 4 × G in deal | | |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | " | 2 9 0 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | " | 2 11 6 |
| 2 in. 2 Panel top panel open. Pattern 2 × G in deal | | |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | " | 2 3 0 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | " | 2 5 0 |
| 1½ in. Plywood Faced Flush Doors to BS459, Part 2A | | |
| 2 ft. 0 in. × 6 ft. 0 in. ... ... ... ... ... | " | 1 12 3 |
| 2 ft. 0 in. × 6 ft. 6 in. ... ... ... ... ... | " | 1 12 3 |
| 2 ft. 3 in. × 6 ft. 6 in. ... ... ... ... ... | " | 1 13 9 |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | " | 1 15 3 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | " | 1 18 0 |
| 1½ in. Hardboard Faced Flush Doors | | |
| 2 ft. 0 in. × 6 ft. 0 in. ... ... ... ... ... | " | 1 5 6 |
| 2 ft. 0 in. × 6 ft. 6 in. ... ... ... ... ... | " | 1 6 0 |
| 2 ft. 3 in. × 6 ft. 6 in. ... ... ... ... ... | " | 1 6 6 |
| 2 ft. 6 in. × 6 ft. 6 in. ... ... ... ... ... | " | 1 8 6 |
| 2 ft. 9 in. × 6 ft. 6 in. ... ... ... ... ... | " | 1 9 6 |

## SUNDRIES

| Delivered London area. | | £ s. d. |
|---|---|---|
| 1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (67 yds. to 1 ton) ... ... | per yd. | 6 2 |
| 1½ in. do. (67 yds. to 1 ton) ... ... | " | 8 0 |
| 2 in. do. (52 yds. to 1 ton) ... ... | " | 9 9½ |
| 2½ in. do. (45 yds. to 1 ton) ... ... | " | 11 3 |
| 3 in. do. (39 yds. to 1 ton) ... ... | " | 12 7½ |
| Quantities under 1 ton add 1d. per ½ in. of thickness | | |
| ½ in. imported or home produced insulation Board, quantities over 5,000 sq. ft. ... ... ... ... | per 100 sq. ft. | 2 2 6 |
| ⅛ in. Hardboard do. ... ... ... ... | " | 1 17 6 |
| 3/16 in. do. do. ... ... ... ... | " | 2 4 6 |
| 2 in. Compressed Straw Slabs, roofing quality. 6 ft., 8 ft., 9 ft., 10 ft., and 12 ft. × 4 ft. | | |
| 50–100 yds. ... ... ... ... ... ... | per yd. sup. | 11 4 |
| 101–250 yds. ... ... ... ... ... ... | " | 10 10 |
| 251–750 yds. ... ... ... ... ... ... | " | 10 1 |
| Over 750 yds. ... ... ... ... ... ... | " | 9 4 |
| 2 in. do. for partitions 4d. per yd. cheaper. | | |
| 7/16 in. Asbestos Flat Building Sheets... ... ... | " | 4 3½ |
| ¼ in. do. do. do. ... ... ... | " | 6 0 |
| Roofing Felt 1-ply ... ... ... ... ... ... | " | 1 9 |
| do. 2-ply ... ... ... ... ... ... | " | 2 2½ |
| Best Scotch Glue in slabs ... ... ... ... | per ½ cwt. | 5 3 9 |
| do. pearl ... ... ... ... ... | " | 5 3 9 |
| Croid Glue ... ... ... ... ... ... | 28 lb. | 2 6 0 |
| Impact Adhesive ... ... ... ... ... ... | per gall. | 2 12 0 |
| Cut Nails 3 in. (1-ton lots) ... ... ... ... | per ton | 84 10 0 |
| do. 4 in. and up (1-ton lots) ... ... ... | " | 81 0 0 |
| Wire Nails 3 in. (4-cwt. lots) ... ... ... ... | per cwt. | 3 19 2 |
| do. 4 in. and up (4-cwt. lots) ... ... | " | 3 16 6 |

## METALS

STEEL JOISTS, ETC.

| Basis Joists— | | £ s. d. |
|---|---|---|
| 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in. 12 in. × 6 in., plain cut to lengths delivered London area ... ... ... ... ... ... | per ton | 47 15 0 |
| Extra for sizes | | |
| 3 in. × 1½ in. 4 in. × 1½ in. ... ... ... ... | " | 3 10 0 |
| 3 in. × 3 in. ... ... ... ... ... ... ... | " | 2 10 0 |
| 4 in. × 3 in. ... ... ... ... ... ... ... | " | 2 5 0 |
| 10 in. × 4½ in. ... ... ... ... ... ... | " | 1 10 0 |
| 5 in. × 2½ in. 5 in. × 3 in. ... ... ... ... | " | 1 15 0 |
| 4½ in. × 1½ in. ... ... ... ... ... ... | " | 3 5 0 |
| 5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ... | " | 15 0 |
| 6 in. × 3 in. 24 in. × 7½ in. ... ... ... ... | " | 2 0 0 |
| 6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in. ... ... ... | " | 1 5 0 |
| 12 in. × 5 in. 22 in. × 7 in. ... ... ... ... | " | 1 0 0 |

## METALS—*continued*

| | | £ | s. | d. |
|---|---|---|---|---|
| 9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. | per ton | | 10 | 0 |
| 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. | per ton | | 10 | 0 |
| 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. | per ton | | 10 | 0 |
| 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. | per ton | | 10 | 0 |
| 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in. | " | | 10 | 0 |
| Steel angles average price ... ... ... ... | " | 48 | 15 | 0 |
| Steel tees average price ... ... ... ... | " | 49 | 15 | 0 |
| Fabricated work delivered London— | | | | |
| R.S. Joists cut and fitted... ... ... ... ... | " | 67 | 19 | 0 |
| Compound girders... ... ... ... ... ... | " | 72 | 14 | 3 |
| Stanchions ... ... ... ... ... ... ... | " | 78 | 9 | 9 |
| Compound stanchions ... ... ... ... ... | " | 83 | 4 | 3 |
| In Roof Work—Trusses and Purlins ... ... | " | 93 | 19 | 6 |
| Average prices not for awkward work. | | | | |
| Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area ... ... ... ... ... | per cwt. | 5 | 10 | 0 |

### Ferro-Concrete Bars and Fabric

| | | £ | s. | d. |
|---|---|---|---|---|
| Mild Steel Ferro-Concrete Bars British manufacture to BSS 785 ex. Mills. 1 in. diameter and upwards delivered nearest London station ... | per ton | 40 | 10 | 0 |
| do. do. ex. London Stock do. delivered London site ... ... ... ... ... | " | 49 | 10 | 0 |
| Extras— | | | | |
| ¼ in. diam.... ... ... ... ... ... ... | per ton extra | 8 | 12 | 6 |
| 5/16 in. do. ... ... ... ... ... ... ... | " | 6 | 12 | 6 |
| ⅜ in. do. ... ... ... ... ... ... ... | " | 4 | 12 | 6 |
| ½ in. do. ... ... ... ... ... ... ... | " | 3 | 2 | 6 |
| ⅝ in. do. ... ... ... ... ... ... ... | " | 1 | 10 | 0 |
| ⅞ in. and ¾ in. diam. ... ... ... ... ... | " | | 15 | 0 |
| Steel wire mesh reinforcing fabric to BSS 1221A. | | | | |
| Ref. No. 106 ... ... 7.88 lbs. ... ... | per sq. yd. | | 5 | 2 |
| " " 109 ... ... 4.71 " ... ... | " | | 3 | 0½ |
| " " 113 ... ... 1.83 " ... ... | " | | 1 | 8½ |
| " " 122 ... ... 7.32 " ... ... | " | | 4 | 10½ |
| " " 125 ... ... 4.32 " ... ... | " | | 2 | 10½ |

### Mild Steel Tubes

Tubes to BSS 1387. Fittings BSS 1740.

Basic List Prices

| | | ¼ in. | ⅜ in. | ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|---|---|---|
| Tubes ... ... | per ft. | 9¾ | 10 | 1/– | 1/2½ | 1/9 | 2/3 | 2/8 | 2/9 |
| Bends ... ... | each | 1/7 | 1/9 | 2/– | 2/6 | 3/8 | 5/5 | 6/2 | 10/7 |
| Elbows, square | " | 1/8 | 1/10 | 2/2 | 2/6 | 3/– | 4/4 | 5/2 | 8/6 |
| do. round | " | 1/10 | 2/– | 2/4 | 2/10 | 3/4 | 4/8 | 5/8 | 9/4 |
| Tees ... ... | " | 2/– | 2/2 | 2/6 | 3/2 | 3/8 | 5/– | 6/2 | 10/2 |
| Crosses... ... | " | 4/4 | 4/8 | 5/6 | 6/6 | 8/2 | 11/– | 13/2 | 21/– |
| Sockets, Plain | " | 6 | 6 | 8 | 10 | 1/– | 1/4 | 1/9 | 2/6 |
| do. Diminished | " | 8 | 10 | 1/– | 1/2 | 1/6 | 2/– | 2/8 | 4/– |
| Backnuts ... | " | 4 | 4 | 6 | 7 | 10 | 1/– | 1/4 | 2/2 |

### Malleable Fittings

| | | ¼ in. | ⅜ in. | ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|---|---|---|
| Elbows, round | each | 8½ | 8½ | 9½ | 1/2½ | 1/8½ | 2/7½ | 3/6 | 5/– |
| Tees ... ... | " | 9½ | 9½ | 1/– | 1/4¾ | 2/– | 2/9½ | 4/– | 5/6 |
| Crosses... ... | " | 1/2½ | 1/2½ | 1/4¾ | 2/– | 2/9½ | 3/7½ | 5/2½ | 7/2½ |
| Sockets... ... | " | 5¾ | 5¾ | 7 | 9½ | 1/– | 1/7½ | 2/2½ | 3/1½ |
| Backnuts ... | " | 3 | 3 | 3½ | 4½ | 5¾ | 7¾ | 10½ | 1/5½ |

Discounts from List prices as follows :—

Galvanised Tube—

| | Under 1 ton | Over 1 ton | W.I. Fittings | Malleable Fittings |
|---|---|---|---|---|
| Light | −38¾% | −40½% | Light −25¾% | Malleable List |
| Medium | −34¾% | −36½% | Heavy −21¾% | −14% + 40% |
| Heavy | −27 % | −28½% | | |

Black—

| | | | | |
|---|---|---|---|---|
| Light | −49 % | −50¾% | Light −31½% | Malleable List |
| Medium | −45 % | −46¾% | Heavy −27¾% | −14% |
| Heavy | −37½% | −39 % | | |

### C.I. Half-Round Gutters

Delivered London per yd. in 6 ft. lengths.

| | Gutters | Nozzles | Stop Ends |
|---|---|---|---|
| 3 in. ... ... ... ... ... ... | 4/2½ | 3/9 | 1/1 |
| 3½ in. ... ... ... ... ... ... | 4/7 | 4/1 | 1/1 |
| 4 in. ... ... ... ... ... ... | 5/11 | 4/7 | 1/7 |
| 4½ in. ... ... ... ... ... ... | 6/6 | 5/1 | 1/11 |
| 5 in. ... ... ... ... ... ... | 7/3 | 5/6 | 2/1 |

### C.I.O.G. Gutters

| Per yd. in 6-ft. lengths : | Gutters | Nozzles | Stop Ends |
|---|---|---|---|
| 3 in. ... ... ... ... ... ... | 5/5 | 4/11 | 1/3 |
| 3½ in. ... ... ... ... ... ... | 6/–½ | 4/11 | 1/7 |
| 4 in. ... ... ... ... ... ... | 6/8½ | 5/1 | 1/11 |
| 4½ in. ... ... ... ... ... ... | 7/3 | 5/10 | 2/3 |
| 5 in. ... ... ... ... ... ... | 7/11 | 6/8 | 2/7 |

### C.I. Rain-Water Pipes

| | Pipes | Bends | Branches |
|---|---|---|---|
| 2 in. ... ... ... ... ... ... | 8/11½ | 4/7 | 6/7 |
| 2½ in. ... ... ... ... ... ... | 8/11½ | 5/1 | 8/10 |
| 3 in. ... ... ... ... ... ... | 10/1 | 6/5 | 9/7 |
| 3½ in. ... ... ... ... ... ... | 11/6 | 7/7 | 11/6 |
| 4 in. ... ... ... ... ... ... | 13/3½ | 9/2 | 13/7 |

### L.C.C. Coated Soil Pipes

| | | | |
|---|---|---|---|
| 2 in. ... ... ... ... ... ... | 10/2½ | 7/10 | 9/7 |
| 2½ in. ... ... ... ... ... ... | 10/9 | 8/9 | 11/11 |
| 3 in. ... ... ... ... ... ... | 12/1 | 9/7 | 14/2 |
| 3½ in. ... ... ... ... ... ... | 13/6 | 11/11 | 16/6 |
| 4 in. ... ... ... ... ... ... | 15/4½ | 13/4 | 19/5 |

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 32½% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

### L.C.C. Coated Drain Pipes

| | | £ | s. | d. |
|---|---|---|---|---|
| 4 in. diameter in 9 ft. lengths ... ... ... | per yd. run | 1 | 11 | 1 |
| 6 in. do. do. ... ... ... ... | " | 2 | 5 | 6 |
| 4 in. diameter bends ... ... ... ... ... | each | 1 | 0 | 6 |
| 6 in. do. do. ... ... ... ... ... | " | 2 | 14 | 9 |
| 4 in. diameter branches ... ... ... ... ... | " | 1 | 16 | 6 |
| 6 in. do. do. ... ... ... ... ... | " | 4 | 7 | 6 |

Above prices for any quantity but under 5 cwt. carriage extra.

### Pitch Fibre Drain Pipes

| | | | |
|---|---|---|---|
| 2 in. diameter in 5 ft., 5 ft. 6 in. or 8 ft. lengths including couplings ... ... ... ... ... | per ft. run | 1 | 6½ |
| 3 in. do. ... ... ... ... ... ... | " | 1 | 10½ |
| 4 in. do. ... ... ... ... ... ... | " | 2 | 6 |
| 5 in. do. ... ... ... ... ... ... | " | 4 | 1½ |
| 6 in. do. ... ... ... ... ... ... | " | 5 | 0½ |
| 4 in. diameter short radius ¼ bends ... ... | each | 17 | 9 |
| 4 in. do. do. ½ bends ... ... | " | 12 | 11 |
| 2 in. diameter 6 ft. radius bends (5 ft. lengths) | " | 17 | 0 |
| 3 in. do. do. do. | " | 19 | 8 |
| 4 in. do. do. do. | " | 1 | 7 | 4 |
| 5 in. do. do. do. | " | 2 | 4 | 0 |
| 6 in. do. do. do. | " | 2 | 14 | 6 |

Above prices for loads of £60 and over.
Loads £25 to £59 19s. 11d. Plus 10%
Loads under £25 ... Plus 15%

### Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.

| | | 2 in. | 2½ in. | 3 in. | 4 in. |
|---|---|---|---|---|---|
| Pipes, 6 ft. lengths ... | per yd. | 4/7 | 4/10½ | 5/11 | 7/10 |
| Shoes ... ... ... ... | each | 3/– | 3/3 | 3/10 | 5/2 |
| Single Branches ... ... | " | 4/8 | 5/6 | 6/7 | 9/2 |
| Bends, square or obtuse ... | " | 3/3 | 3/7 | 4/8 | 6/7 |
| Swan Necks, 4½ in. proj. ... | " | 3/7 | 4/8 | 5/2 | 7/3 |
| do. 6 in. do. ... | " | 3/10 | 5/2 | 5/10 | 7/10 |

### Asbestos O.G. Gutters and Fittings

| | | 4 in. | 4½ in. | 5 in. | 6 in. |
|---|---|---|---|---|---|
| Gutters, 6 ft. lengths ... | per yd. | 4/4 | 4/9½ | 5/9 | 6/10½ |
| Drop ends ... ... .. | each | 3/6 | 4/– | 4/9 | 5/5 |
| Stop ends ... ... ... | " | 1/1 | 1/2 | 1/3 | 1/5 |
| Angles ... ... ... ... | " | 3/7 | 4/1 | 5/– | 5/10 |
| Nozzles ... ... ... ... | " | 3/6 | 4/– | 4/9 | 5/– |
| Union Clips ... ... ... | " | 1/9 | 2/1 | 2/6 | 2/11 |

### Asbestos Half-Round Gutters and Fittings

| | per | 3 in. | 4 in. | 4½ in. | 5 in. | 6 in. |
|---|---|---|---|---|---|---|
| Gutters, 6 ft. lengths | yd. | 3/0½ | 3/7½ | 3/8½ | 4/4½ | 6/1 |
| Drop ends ... ... | each | 2/6 | 3/– | 3/3 | 3/7 | 5/2 |
| Stop ends ... ... | " | 1/– | 1/1 | 1/2 | 1/3 | 1/5 |
| Angles ... ... ... | " | 2/10 | 3/3 | 3/7 | 3/10 | 5/2 |
| Nozzles ... ... ... | " | 2/6 | 3/– | 3/3 | 3/7 | 5/2 |
| Union Clips ... ... | " | 1/3 | 1/4 | 1/5 | 1/7 | 2/5 |

| | Per ton basis in London £ | s. | d. |
|---|---|---|---|
| Iron—Staffordshire Crown Merchant Quality ... ... | 52 | 17 | 6 |
| Mild Steel Bars ... ... ... ... ... ... ... | 47 | 8 | 6 |
| Mild Steel Hoops ... ... ... ... ... ... ... | 49 | 0 | 0 |

| | Ex Merchant's Stock per ton Two-ton lots £ | s. | d. |
|---|---|---|---|
| Soft Sheets C.R. and C.A.— | | | |
| 20 gauge ... ... ... ... ... ... ... ... | 62 | 7 | 6 |
| 24 gauge ... ... ... ... ... ... ... ... | 64 | 17 | 6 |
| 26 gauge ... ... ... ... ... ... ... ... | 67 | 17 | 6 |
| Galvanised Corruguated Sheets, 6-ft. to 9-ft.— | | | |
| 20 gauge ... ... ... ... ... ... ... ... | 70 | 4 | 0 |
| 24 gauge ... ... ... ... ... ... ... ... | 73 | 14 | 0 |
| 26 gauge ... ... ... ... ... ... ... ... | 78 | 19 | 0 |
| Galvanised Flat Sheets C.R. and C.A.— | | | |
| 20 gauge ... ... ... ... ... ... ... ... | 71 | 14 | 0 |
| 24 gauge ... ... ... ... ... ... ... ... | 75 | 4 | 0 |
| 26 gauge ... ... ... ... ... ... ... ... | 80 | 9 | 0 |

## ALUMINIUM AND ALUMINIUM ALLOYS

| (Base Prices) | | £ | s. | d. |
|---|---|---|---|---|
| Sheet BS 1740 S1C 18 SWG (36 in. wide)... ... | per lb. | | 3 | 0½ |
| Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide) | " | | 2 | 11½ |
| Coiled strip BS 1470 S1C 18 SWG (24 in. wide) | " | | 2 | 11½ |
| Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)... ... ... ... ... ... ... ... | " | | 2 | 11 |
| Coiled strip, high purity, 22 SWG (12 in. wide) | " | | 3 | 2 |
| Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG ... ... ... ... | per sheet | 1 | 14 | 1 |
| Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31¾ in. × 20 SWG ... ... ... ... | " | 1 | 19 | 10 |
| Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31¾ in. × 20 SWG ... ... ... ... | " | 1 | 13 | 1 |
| Extruded section BS 1476 E1C simple moulding | per lb. | | 2 | 10½ |
| Extruded section BS 1476 E1C 1 in. diam. round | " | | 2 | 8 |
| Extruded section BS 1476 HE19WP simple angle | " | | 3 | 2 |
| Extruded section BS 1476 HE19WP 1 in. diam. round ... ... ... ... ... ... ... | " | | 3 | 1 |
| Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ... | " | | 4 | 8 |
| Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG | " | | 6 | 3 |

## PLUMBERS' BRASS WORK, etc.

Delivered in London area.

| All per dozen | B.S.S. ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|
| Screwdown bib cocks Crutch head for iron... ... ... | 87/- | 128/- | — | — | — | — |
| Toilet bib cocks for iron ... | 109/- | 158/5 | — | — | — | — |

EASTWOODS

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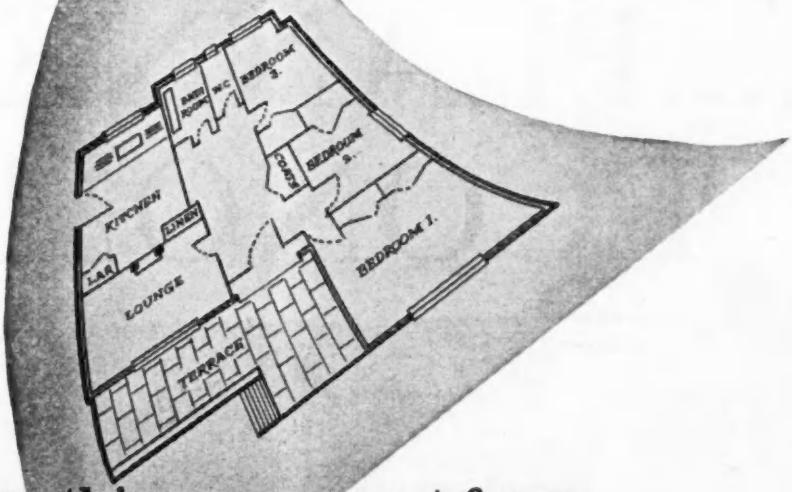


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When an architect consults Still's on a catering problem, he knows that he will get much more than a 'high power sales talk.' He knows that Still's have over eighty years' experience of catering in all its aspects, and that they make the best equipment for his money. Even more important, he knows that Still's can save him time and money, by solving HIS catering problems at the drawing board. Still's advisory service is prepared to plan kitchens, serverys and canteens, from the ground up—or renovate old ones. This service, which includes the preparation of detailed layouts and quotations, is available to all architects without obligation.

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AP350

## PLUMBERS' BRASS WORK, etc.—*continued*

| All per dozen | ½ in. | ¾ in. | 1 in. | 1¼ in. | 1½ in. | 2 in. |
|---|---|---|---|---|---|---|
| Screwdown stop cocks for iron | 66/- | 95/9 | 188/- | 363/- | 522/6 | 917/6 |
| do. with two unions for lead | 89/- | 132/- | 234/4 | 472/- | 623/6 | 1,389/6 |
| Double nut boiler screws ... | 18/8 | 26/5 | 47/6 | 48/6 | 67/- | 93/6 |
| Heavy Croydon ball valves ... | 77/- | 193/6 | 312/5 | 568/8 | 734/10 | — |
| Plumbers' union brass lead to iron ... ... ... ... | 19/6 | 23/6 | 38/6 | 52/10 | 70/6 | 165/- |

| | 1½ in. | 1½ in. | 2 in. | 3 in. | 3½ in. | 4 in. |
|---|---|---|---|---|---|---|
| Caps and Screws ... ... | 33/- | 40/8 | 59/6 | 92/5 | 118/10 | 155/3 |
| Brass Sleeves ... ... ... | — | 31/11 | 31/11 | 56/2 | 74/10 | 91/5 |
| | 1½×6 lb. | 1½×6 lb. | | 2×7 lb. | | 3×7 lb. |
| Lead P. trap with brass cleaning screws ... ... ... | 68/6 | 85/6 | | 137/- | | 233/9 |
| Lead S. trap do. do. | 82/9 | 102/9 | | 168/3 | | 302/3 |

| Solder : | | | | | s. | d. |
|---|---|---|---|---|---|---|
| Plumbers' ... | 1 cwt. lots | 320/- | 14 lb. lots per lb. | | 3 | 7 |
| Tinmen's ... ... | ,, ,, | 404/- | ,, ,, ,, | | 4 | 5 |
| Blow pipe ... | ,, ,, | 407/- | ,, ,, ,, | | 4 | 6 |

### Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 28⅝d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

| | Extra d. | | d. | | d. |
|---|---|---|---|---|---|
| ⅛ in. × 19 gauge | 16½ | Total per lb. | 44⅞ | Approx. per ft. | 12 |
| ¼ in. × 19 ,, | 14⅜ | ,, ,, | 43 | ,, ,, | 16½ |
| 1 in. × 18 ,, | 12⅞ | ,, ,, | 41½ | ,, ,, | 25½ |
| 1¼ in. × 18 ,, | 12½ | ,, ,, | 40½ | ,, ,, | 31 |
| 1½ in. × 18 ,, | 12½ | ,, ,, | 40½ | ,, ,, | 37½ |
| 2 in. × 17 ,, | 13⅞ | ,, ,, | 42½ | ,, ,, | 59½ |

Small Quantity extras :

| | |
|---|---|
| 10 cwts. to 5 cwts. ... ... ... ... ... | plus ½d. per lb. |
| 5 cwts. to 2 cwts. ... ... ... ... ... | ,, 1d. ,, |
| 2 cwts. to 1 cwt. ... ... ... ... ... | ,, 2d. ,, |

| Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras ... ... ... ... | £ | s. | d. |
|---|---|---|---|
| | 277 | 0 | 0 |

### Zinc

| | | £ | s. | d. |
|---|---|---|---|---|
| Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards | per cwt. | 7 | 18 | 9 |
| ,, ,, 12 gauge (23 SWG), ,, ,, ,, | ,, | 7 | 18 | 3 |
| ,, ,, 14 gauge (21 SWG), ,, ,, ,, | ,, | 7 | 17 | 0 |

### Brass Tube

| | | | | |
|---|---|---|---|---|
| Brass tubes, basic price, plus gauge and manufacturing extras ... ... ... ... ... ... | per lb. | 1 | 11⅜ | |

## LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

| | | £ | s. | d. |
|---|---|---|---|---|
| Lead Sheet, English, 3½ lb. substance and upwards | per ton | 104 | 15 | 0 |
| ,, Water Pipe, in coils ... ... ... ... | ,, | 107 | 0 | 0 |
| Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia. | ,, | 108 | 10 | 0 |
| ,, ,, ,, over 4 in. dia. ... ... ... | ,, | 110 | 10 | 0 |
| ,, Gas or Untinned Compo pipe... ... ... | ,, | 108 | 10 | 0 |

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt. :

| | | | | |
|---|---|---|---|---|
| 3 cwt. and under 5 cwt. ... ... ... ... | per cwt. | | 4 | 0 |
| 1 cwt. do. 3 cwt. ... ... ... ... | ,, | | 6 | 0 |

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipes to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £53 0s. 0d. per ton weighed at buyer's works.

## PLASTER, etc.

| | | £ | s. | d. |
|---|---|---|---|---|
| Coarse Pink in 1-ton loads and over delivered on site | per ton | 8 | 11 | 3 |
| do. White do. do. do. | ,, | 9 | 0 | 9 |
| Sirapite Coarse BSS 1191 Class C do. | ,, | 9 | 2 | 9 |
| do. Fine do. do. do. | ,, | 9 | 10 | 6 |
| do. Browning BSS 1191 Class B do. | ,, | 9 | 2 | 9 |
| do. Board Finish do. do. | ,, | 9 | 2 | 9 |
| Blue Lias Lime, in 6-ton loads ... ... ... | ,, | 6 | 17 | 6 |
| Hydrated Lime (Grey) in 6-ton loads ... ... | ,, | 5 | 10 | 0 |
| do. (White) do. ... ... ... | ,, | 6 | 0 | 0 |
| Lump Lime (Grey) do. ... ... ... | ,, | 5 | 7 | 0 |
| do. (White) do. ... ... ... | ,, | 5 | 14 | 6 |
| White Keen's or Parian Cement, in 1-ton loads ... | ,, | 12 | 7 | 6 |
| Pink Keen's or Parian Cement, in 1-ton loads ... | ,, | 12 | 2 | 3 |
| Granite Chips, in 6-ton loads ... ... ... | ,, | 2 | 6 | 9 |
| Hair ... ... ... ... ... ... ... ... | per cwt. | 4 | 17 | 6 |
| Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site | per yd. | | 2 | 2½ |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | | 2 | 1½ |
| do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site ... ... | ,, | | 2 | 8 |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | | 2 | 7 |
| Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds. and over in one delivery. Delivered site ... ... ... ... | ,, | | 2 | 5½ |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | | 2 | 4½ |
| do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site ... ... | ,, | | 2 | 11 |
| 1,200 yds. ... ... ... ... ... ... ... | ,, | | 2 | 10 |

## PAINTS AND DISTEMPER

Delivered London area.

| | | £ | s. | d. |
|---|---|---|---|---|
| Ceiling Distemper ... ... ... ... ... ... | per cwt. | 1 | 7 | 6 |
| Washable Distemper ... ... ... ... ... | ,, | 5 | 15 | 0 |
| Gloss Paint ... ... ... ... ... ... ... | per gal. | 2 | 16 | 0 |
| Super Snowcem cement paint (in 1 cwt. drums) ... | per cwt. | 5 | 0 | 0 |

### Lead Products and Oils

| | | £ | s. | d. |
|---|---|---|---|---|
| Ground White Lead, in 1 cwt. kegs ... ... ... | per cwt. | 8 | 7 | 6 |
| Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins | per gal. | 3 | 6 | 6 |
| Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots) | per cwt. | 5 | 12 | 6 |
| do. do. do. (1 cwt. lots) | ,, | 6 | 19 | 0 |
| Genuine Linseed Oil Putty, 1 cwt. keg ... ... | ,, | 2 | 13 | 6 |
| Size XD quality 28 lb. ... ... ... ... ... | per tin | | 9 | 0 |
| Raw Linseed Oil (5 gal.) drums extra ... ... | per gal. | | 16 | 9 |
| Boiled Linseed Oil (5 gal.) do. ... ... | ,, | | 17 | 8 |

### Sundries

| | | | | |
|---|---|---|---|---|
| Turpentine substitute ( 5 gal.) drums extra ... | ,, | | 5 | 4⅜ |
| do. do. (40 gal.) do. ... ... | ,, | | 4 | 8⅜ |
| Solignum, Brown (5 gal. cans) Exterior ... ... | ,, | | 10 | 0 |
| Creosote (40 gal. barrels) ... ... ... ... | ,, | | 2 | 3 |
| Paste Powder (1 lb. packets) ... ... ... ... | per lb. | | 2 | 4 |
| White Lining Paper ... ... ... ... ... | per piece | | 1 | 2 |

## VARNISHES, etc.

Delivered London area.

| | | £ | s. | d. |
|---|---|---|---|---|
| Oak Varnish, Outside or Inside ... ... ... | per gal. | 2 | 0 | 0 |
| Oak, Pale Copal do. do. ... ... ... | ,, | 2 | 0 | 0 |
| Hard Drying Oak for Inside ... ... ... ... | ,, | 2 | 5 | 0 |
| Crystal Paper Varnish do. ... ... ... ... | ,, | 2 | 8 | 0 |
| Eggshell Flat Varnish do. ... ... ... ... | ,, | 2 | 2 | 0 |
| Finest Carriage Varnish ... ... ... ... ... | ,, | 2 | 7 | 0 |
| Front Door Varnish ... ... ... ... ... | ,, | 2 | 4 | 0 |
| Japan Gold Size ... ... ... ... ... ... | ,, | 1 | 12 | 0 |
| Black Japan ... ... ... ... ... ... ... | ,, | 1 | 16 | 0 |
| Brunswick Black ... ... ... ... ... ... | ,, | 1 | 12 | 0 |
| Berlin Black ... ... ... ... ... ... ... | ,, | 1 | 10 | 0 |
| Terebene ... ... ... ... ... ... ... | ,, | 1 | 12 | 0 |
| Knotting (1 gal. bottles free) ... ... ... ... | ,, | 1 | 15 | 0 |
| French and Brush Polish (do.)... ... ... ... | ,, | 1 | 15 | 0 |

## GLASS

Delivered London area.

| | | s. | d. |
|---|---|---|---|
| 18 oz. Sheet Glass Ordinary Glazing Quality—Cut Sizes... ... ... ... ... ... | per ft. sup. | | 10 |
| 24 oz. do. do. do. do. | ,, | 1 | 0½ |
| 26 oz. do. do. do. do. | ,, | 1 | 3 |
| 32 oz. do. do. do. do. | ,, | 1 | 7½ |
| ⅛ in. Rolled Plate ... ... ... ... ... ... | ,, | 1 | 3½ |
| 7/16 in. Rolled and Rough Cast ... ... ... ... | ,, | 1 | 6½ |
| ¼ in. do. do. ... ... ... ... | ,, | 1 | 7½ |
| ⅜ in. Figured Rolled and Cathedral, Standard patterns— | | | |
| White Group 1 ... ... ... ... ... | ,, | 1 | 3½ |
| do. Group 2 ... ... ... ... ... | ,, | 1 | 9½ |
| do. Standard Tints ... ... ... ... ... | ,, | 2 | 1½ |
| do. Special Tints ... ... ... ... ... | ,, | 7 | 3 |
| ⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3 ... ... ... ... | ,, | 1 | 8½ |
| ¼ in. Wired Cast up to 50 in. ... ... ... ... | ,, | 1 | 10½ |
| ¼ in. do. do. 50 in. to 72 in. ... ... ... | ,, | 2 | 2½ |
| ¼ in. Georgian Wired Cast ... ... ... ... | ,, | 1 | 11 |

Hollow Glass Blocks—

| | | | | |
|---|---|---|---|---|
| P.B.2 | Cross reeded | 5¾ × 5¾ × 3¾ in. ... ... | each | 3 9 |
| P.B.3 | Broad reeded | 7¾ × 7¾ × 3¾ in. ... ... | ,, | 5 9 |
| P.B.32 | Cross reeded | 7¾ × 7¾ × 3¾ in. ... ... | ,, | 5 9 |
| P.B.4 | Prismatic | 7¾ × 7¾ × 3¾ in. ... ... | ,, | 6 6 |
| P.B.5 | Flemish | 7¾ × 7¾ × 3¾ in. ... ... | ,, | 5 9 |
| P.B.6 | Boomerang | 7¾ × 7¾ × 3¾ in. ... ... | ,, | 6 6 |

Half Size Blocks—

| | | | | |
|---|---|---|---|---|
| P.B.32 | Cross reeded | 7¾ × 3¾ × 3¾ in. ... ... | ,, | 4 10 |

Radiused Corner Blocks to match up with—

| | | | | |
|---|---|---|---|---|
| P.B.2 | Cross reeded ... ... ... ... ... | ,, | 8 | 1 |
| P.B.3 | Broad reeded ... ... ... ... ... | ,, | 9 | 8 |
| P.B.32 | Cross reeded ... ... ... ... ... | ,, | 9 | 8 |

P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.

¼ in. Polished Plate Glass, G.G. quality—

| | | | | |
|---|---|---|---|---|
| In plates not exceeding 2 ft. sup. ... ... | per ft. sup. | 4 | 7 |
| ,, ,, ,, 5 ft. sup. ... ... | ,, | 5 | 7 |
| ,, ,, ,, 45 ft. sup. ... ... | ,, | 7 | 6 |
| ,, ,, ,, 100 ft. sup. ... ... | ,, | 7 | 6 |

¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ... | ,, | 11 | 4
Not exceeding 180 ft. sup. or do. ... ... | ,, | 15 | 0

Plates exceeding 180 ft. sup. prices on application.

Substances other than ¼ in. Polished Plate at Special Prices.

Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

| Description of Glass— | Minimum quantity | per ft. sup. s. | d. |
|---|---|---|---|
| 18 oz. sheet O.Q. ... ... ... ... ... ... | 3,000 | | 7½ |
| 24 oz. ,, ,, ... ... ... ... ... ... | 2,000 | | 9½ |
| 26 oz. ,, ,, ... ... ... ... ... ... | 2,000 | | 11½ |
| 32 oz. ,, ,, ... ... ... ... ... ... | 2,000 | 1 | 3½ |
| ⅛ in. Rolled Plate ... ... ... ... ... ... | 1,000 | | 10½ |
| ⅜ in. Figured Rolled and Cathedral Standard Patterns, White Group 1 ... ... ... | 1,000 | | 10½ |
| do. Group 2 ... ... ... | 1,000 | 1 | 2½ |
| ⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3 ... ... ... | 1,000 | 1 | 2½ |
| 7/16 in. Rolled Plate or Rough Cast ... ... ... | 2,000 | 1 | 2 |
| ¼ in. do. do. ... ... ... ... | 2,000 | 1 | 2½ |
| ¼ in. Wired Cast, Hexagonal up to 50 in ... | 2,000 | 1 | 5 |
| ¼ in. do. do. do. 50 in. to 72 in. ... | 2,000 | 1 | 9 |
| ¼ in. Georgian Wired Cast ... ... ... ... | 2,000 | 1 | 5½ |

# THE BUILDER RATES OF WAGES

**AS FROM FEBRUARY 6th., 1961. (Every endeavour is made to ensure accuracy but we cannot be responsible for errors)**

**1. Craftsmen and Labourers.**

| Region | Craftsmen | Labourers |
|---|---|---|
| | s. d. | s. d. |
| England & Wales (Grade A) ... | 5 0 | 4 4½ |
| London ... ... | 5 1½ | 4 6 |
| Liverpool and District ... | 5 1½ | 4 6 |
| Scotland... ... | 5 0 | 4 4½ |

**2. Apprentices.**

| Age | Per cent. of Craft Rate | London and Liverpool Dist. | England, Wales |
|---|---|---|---|
| | | s. d. | s. d. |
| 15 | 25 | 1 3½ | 1 3 |
| 16 | 33½ | 1 8½ | 1 8 |
| 17 | 50 | 2 6½ | 2 6 |
| 18 | 62½ | 3 2½ | 3 1½ |
| 19 | 75 | 3 10½ | 3 9 |
| 20 | 87½ | 4 6 | 4 4½ |

**3. Young Male Labourers.**

| Age | Per cent. of Craft Rate | London and Liverpool Dist. | England, Wales and Scotland |
|---|---|---|---|
| | | s. d. | s. d. |
| 15 | 33½ | 1 6 | 1 5½ |
| 16 | 45 | 2 0½ | 1 11½ |
| 17 | 66⅔ | 3 0 | 2 11 |
| 18 | 100 | 4 6 | 4 4½ |

NORTHERN IRELAND is not included; rates fluctuate so much from district to district that reference should be made to local offices.
WATCHMEN.—The rates per shift for watchmen engaged on building sites is 27s. 6d. in London and Liverpool District, and 26s. 3d. in the provinces.
FEMALE OPERATIVES.—In all districts throughout the country except in Scotland the rate of wages for women, aged 19 and over, engaged in craft processes is 4s. 1½d. per hour. Women engaged on work other than craft processes, 3s. 9½d. per hour. In Scotland the rate for the woman craftsman is 4s. 4½d. after a probationary period, and the woman labourer, 3s. 10½d.

## Industrial Experience

### Experiment with Pre-Apprenticeship Course at Erith

FROM A CORRESPONDENT

AN EXPERIMENT in industrial experience has recently been completed in connection with the pre-apprenticeship course at the Department of Building, Erith Technical College. In his report on the first week of the experiment MR. A. O. WILLIAMS, head of the department, states that the full-time pre-apprenticeship course in building has been a successful feature of the College programme for seven years, with no problem of employment for the students who have successfully completed the year's course.

It was felt, however, that the training was somewhat lacking in its restriction to classroom studies with practical craft work which, although ample in quality, was confined to the College workshops and did not offer experience of the conditions which the boys would have to encounter when they entered the industry. Approaches were made to local building firms to secure their co-operation in providing this experience in two separate weeks during which the student was occupied at the firm under their direction.

Subsequently some 22 students attending the full time pre-apprenticeship course spent one week in industry with the object of experiencing at first hand conditions of employment in the craft they hoped to follow. Nineteen firms were visited by the head of department. In each case contact was made with either the directors or their representatives, and in many an opportunity was provided for the scheme to be explained to craftsmen and foremen. The types of firm varied from large contractors, specialist sub-contractors, jobbing builders and local authorities.

In all but one case the scheme was accepted as very well worth trying and the reception given to it by both management and operatives was encouraging. The one firm that was not even interested enough to discuss it does take apprentices but has not a very high opinion of what they can usefully do on entry to a craft.

The students were allocated to 15 of the 19 firms. It was not possible at this stage for the College to accept all the vacancies which the firms willing to co-operate were prepared to offer, nor was it possible to fulfil all the places available trade by trade.

The College considered it essential that the experience provided should be realistic and all students therefore worked under normal conditions and normal hours of work which they would have done had they been serving an apprenticeship. During the week the students' experience covered a wide variety of work including roofing and roof repairs, first and second fixing, experience in the woodworking mill and joiners' shop, shuttering, panelling and fitments of various kinds, lintel boxes, etc. It also included installation of cold and hot water systems, boilers, geysers, small bore heating systems, flashings, general household repairs and plumbing systems. Cavity wall work, both facing and backing-up was covered, as were block partitions, footings and dpc setting frames, etc.

Members of the staff of the College building department have visited the sites where the lads have been employed, and this has added considerably to the co-ordination of the work done at the College and the practical site experience offered by the firms. It is also evident that the renewal of contact with the actual working conditions of the industry and the opportunities of acquiring first-hand knowledge of more modern industrial practice has been of very great value to teachers who themselves left industrial employment some years ago.

## New Companies

THE FOLLOWING NEW COMPANIES, registered in England, have been announced by Jordan and Sons, Ltd., company registration agents.

CULLEN & WALTERS LTD.—Regd. May 16, 1961. 46 Market-st., Stourbridge. Secy.: B. J. Cullen. Bldrs., etc. Nom. cap.: £100.

F. E. WALTERS (LYE) LTD.—Regd. May 16, 1961. 85-89 High-st., Lye, Stourbridge. Secy.: Elsie Walters. Bldrs., etc. Nom. cap.: £100.

R. J. WRIGHT LTD.—Regd. May 16, 1961. 33 Victoria-rd., Leigh-on-Sea. Secy.: M. R. Chettleburgh. Bldrs., etc. Nom. cap.: £100.

J. CORRIGAN (SHIRFIELD) LTD.—Regd. May 16, 1961. 233 Shirfield-rd., Reading. Secy.: Kathleen Corrigan. Bldrs., contrs. and decrs., etc. Nom. cap.: £1,000.

F. DEWEY LTD.—Regd. May 16, 1961. Bldr., decr., etc. Nom. cap.: £25,000. Dir.: F. Dewey, Fairacre, North Newnton, Wilts.

F. J. COLE (CONTRACTORS) LTD.—Regd. May 16, 1961. 11 Cherington-rd., Henleaze, Bristol 9. Secy.: R. V. Smith. Bldrs., etc. Nom. cap.: £15,000.

WALVENT DEVELOPMENTS (EPPING) LTD.—Regd. May 16, 1961. 27 Martin-la., Cannon-st., EC4. Secy.: Olive Low. Bldrs., etc. Nom. cap.: £1,000.

LEONARD FRANKLAND (KING'S LYNN) LTD.—Regd. May 17, 1961. Preston New-rd., Blackpool. Secy.: H. E. Heritage. Bldrs., etc. Nom. cap.: £50,000.

JOHN LION (CONSTRUCTION) LTD.—Regd. May 18, 1961. 9 Norfolk-rd., Maidenhead. Secy.: A. J. L. Lion. Bldr. and contr., etc. Nom. cap.: £1,000.

KIRK DEVELOPMENTS (SKIPTON) LTD.—Regd. May 19, 1961. Bldrs., etc. Nom. cap.: £1,000. Sub.: Margaret B. Braithwaite, 78 Birkby Lodge-rd., Birkby, Huddersfield.

WHITE BROTHERS (CHORLEY WOOD) LTD.—Regd. May 19, 1961. 46 Talbot-rd., Rickmansworth, Herts. Secy.: Florence M. White. Bldrs., etc. Nom. cap.: £100.

H. J. CHILTON LTD.—Regd. May 19, 1961. Grange-chbrs., Uxbridge-rd., Hayes, Middx. Secy.: Delyth E. E. Chilton. Bldrs., decrs., etc. Nom. cap.: £100.

HERRIARD LTD.—Regd. May 19, 1961. 10 South Pallant, Chichester, Sussex. Secy.: Elfie Ward. Bldrs., etc. Nom. cap.: £1,000.

A. L. MITCHISON & CO. LTD.—Regd. May 23, 1961. 42 Greenford-gdns., Greenford. Secy.: Eileen B. Mitchison. Bldrs., etc. Nom. cap.: £100.

C. TAYLOR & SON (SUSSEX) LTD.—Regd. May 23, 1961. 110 Cannon-st., EC4. Secy.: G. A. Chapman. Bldrs., etc. Nom. cap.: £3,000.

MAY & SIMEONS LTD.—Regd. May 23, 1961. Guildhall-chbrs., High-st., Exeter. Secy.: R. J. G. Lethbridge. Bldrs., etc. Nom. cap.: £5,000.

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# TECHNICAL REVIEW

*This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 162 of this issue. The form can be used for more than one inquiry.*

## 1. Balustrading

An interesting design of standardised ALUMINIUM BALUSTRADING, recently shown, promises to effect savings both in estimating and fixing. All the parts (of which there are approximately 25) such as bends, balusters and mitres are quantity-produced and interchangeable which means that quotations can now be made per 'bit and piece' (as in a production job) rather than the normal 'per foot run.'

The basis of the system is a triangular rail grip, cold drawn to a very fine tolerance so that when two are slotted together in the guide rail they become securely locked. This provides the joint for the handrail and the balusters, the fixing being done simply by tightening a socket head screw. At the base, the balusters can be side-fixed to the stairs by a back-plate or, if need be, direct through the tread.

There are three types of handrail, although the range can be extended if the demand is there as it is only a matter of making a new die. The balustrading is to be used for the first time at Leeds University for the main staircase to the new Art Block.

*J. Starkie Gardner Ltd.,*
*Merton-rd., London, SW18.*

## 2. Contractors' Plant

A new type of FORK LIFT ATTACHMENT is at present being used on a contract for 250 houses at Thetford, Essex. Excavations for trenches and foundations are done by a 'Dinkum' excavator and it is on the front shovel of this machine that the attachment has been fitted. As it is capable of lifting a weight of one ton from ground level to 17 ft., the fork lift has proved useful for jobs such as unloading pallets of 640 slates on to the top scaffolding. Timber, bricks and joinery can now be delivered to any part of the site and to whatever area of a particular building they are needed and this has resulted in eliminating a good deal of hand labour. It has also been found that concrete window lintols, 11 ft. long and weighing nearly half a ton, which formerly had to be cast in boxes in situ, can now be cast in batches on the ground, carried, raised and placed in position within a few minutes. The attachment could well have wider application in the future.

*Lifting 640 slates to the roof*

*Whitlock Bros., Ltd.,*
*Great Yeldham, Essex.*

## 3. Communications

An ALL-PURPOSE TELEPHONE has been designed for permanent siting in the open-air or for installing in factories where manufacturing conditions causing dust and noise prohibit the use of normal intercom. A recently devised relay circuit allows push button calling and conversing over distances of up to seven miles. Twin core cable is used for interconnecting.

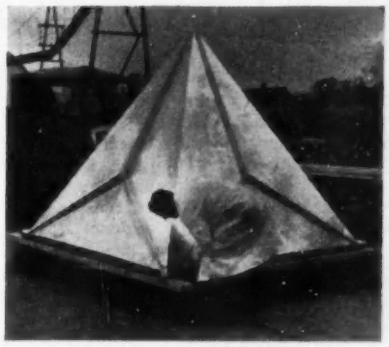
The instrument is housed in a heavy stove-enamelled case which has corner lugs for easy fixing. A hinged door provides permanent enclosure when not in use. A loud bell is fitted inside the casing and provision is made for extension bells to be added, where required, to any station.

*DJP Telephones Ltd.,*
*156 Camden High-st., London, NW1.*

## 4. Roofing

When the International Union of Architects hold their 6th Congress in London, July 3-7, their temporary headquarters building will be designed to show the influence of new materials on architecture. One of the interesting features will be a novel ALUMINIUM ROOF, details of which have recently been released. Formed from bright aluminium sheet, .036 in. thick, it is composed of a mass of pyramids each on an 8 ft. square base and 7 ft. deep. The roof spans an area 144 ft. x 48 ft. and will be carried on tubular steel stanchions.

Basically the roof is a rectangular grid. The merits of such structures are well known to engineers, the foremost being that the main elements of the grid approximate to the trajectories of the principal stresses. Although the diagonal grid is more efficient from this point of view, it has several practical disadvantages and the rectangular grid was preferred for the IUA building to ease these difficulties and to meet the architect's requirements for an 8 ft. module.



*An aluminium pyramid bonded with 'Araldite' epoxyresin adhesive*

It is believed that the application of a sheet pyramid as a basic unit for this grid structure is novel. This unit has been used previously with the apex inverted, thus requiring some weathering membrane such as roof decking above the open unit. By using the pyramid unit with the apex uppermost, a more interesting external appearance has been obtained without detracting from the internal aesthetics of the soffit. By forging gutters at the intersections of the pyramid bases, no weathering membrane is required and an economical system results. The architect for the building is Mr. Theo Crosby, ARIBA.

The structure has the advantage of being corrosion resistant and maintenance free and, because of the repetition of basic units, it is economical to produce.

*The British Aluminium Co., Ltd.,*
*Norfolk House, St. James-sq., SW1.*

## 5. Technical Publications

(a) The value of rectangular hollow sections, in an increasingly wide variety of applications, is underlined by a new brochure issued by Stewarts and Lloyds Ltd. Entitled 'Rectangular Hollow Sections,' it covers all sizes and properties in the hot finished welded and hot finished seamless ranges produced by the company. As the introductory notes point out, for the past two decades round tube has been used as a hollow section for structural and mechanical purposes by fabricators equipped with the machines necessary for manipulating and welding tubes. The booklet is attractively produced in colour and illustrated with appropriate diagrams, notably under the heading of applications. It is issued by the company's Structural Steel Sales Department at Broad-street Chambers, Birmingham.

(b) The first issue of 'Dinorwic Data'—a bi-monthly information sheet published by the Dinorwic Slate Quarries Co. Ltd., Port Dinorwic, Caernarvonshire—is now available. It is designed to be useful to architects and quantity surveyors, and will deal with the many architectural uses to which slate may be put. In the following issue it is planned to describe the use of slate on a 15-degree pitch roofing project, and also to publish a chart in which certain sizes of slate are shown to conform to modular principles. Copies can be obtained from the company.

# Building in the City

## Conditional Approval to Tall Office Block

THE COURT OF COMMON COUNCIL, meeting at the Guildhall on June 1, gave its conditional approval to a comprehensive development in the Moorgate-Moorfields area, which will be dominated by a 34-storey, 395 ft. high office block. The approval was given only after an amendment had been carried declaring that plans should be submitted and displayed for members to see after the developers had consulted with the Barbican Committee of the Council. It was also stated that a Ministerial direction had been received saying that even if permission were granted by the Council, it could not be issued until the Minister concurred.

During the debate, members of the council expressed concern over the size of the proposed development and the fact that it might dominate and clash with the City Corporation's Barbican Development Scheme. The site for the proposed development, which has been applied for by Messrs. F. Milton Cashmore, Joseph and Partners, Kings Bench-Walk, Temple, is bounded by Moor-lane, Ropemaker-street, Moorfields, Moorgate and the Metropolitan Railway. Conditions of the approval include provision being made for a high level pedestrian way on the Moor-lane frontage to Ropemaker-street, provision for one licensed premises and also that the tower block should not be higher than 395 ft.

The Council also approved an outline application by Messrs. C. H. Elsom and Partners of 10 Lower Grosvenor-place, SW1, for the development of the site bounded by Great Tower-street, Tower-hill, Lower Thames-street and the proposed new road from Lower Thames-street to Great Tower-street. The development is for the erection of new buildings for use as offices, shops and licensed premises, and for a coach park and public car park.

Permission to build an eight-storey office block with a sub-basement car park, applied for by Messrs. Jones, Lang, Wootton and Sons, of King-street, EC2, at 39 and 40 Aldersgate, was refused. The reasons given were that the proposed development did not comply with the Corporation's standards regarding daylighting, car parking and loading and unloading facilities, and that the site was too small for separate redevelopment and should be developed with other sites in a comprehensive scheme for the whole area. This the Corporation intended to secure at an appropriate time by the promotion of a compulsory purchase order.

Conditional permission for extensions to the Sir John Cass College at 3 to 6 Jewry-street, applied for by Messrs. Vernes, Rees, Lawrence and Mitchell, of Holland Villas-road, W14, was granted. The proposed development is for the erection of a six-storey building for the extension of teaching accommodation. The new building is to be linked to the existing building on the opposite side of Jewry-street by a subway and a high level bridge at the fourth floor.

The Council approved drawings of the following, submitted in compliance with the conditions of permissions already granted: A new livery hall, to be erected on land fronting Basinghall-avenue, formerly the site of the Girdlers' Hall; a six-floor office building on the site of St. Swithin's Church, Cannon-street; single-storey shops from 135 to 153 Bishopgate; an eight-storey office building at 19 to 22 Houndsditch and 22 to 38 Dukes-place; the conversion from school to offices of Barnards Inn, Holborn, the former buildings of the Mercers' Company School; and the erection of an ancillary office building on the site bounded by Queen Victoria-street, St. Andrew's-hill, Ireland-yard, Playhouse-yard and Blackfriars-lane.

# Federation of Master Builders

## *Sir Hugh Beaver Calls for More Research and Greater Efficiency*

A PLEA FOR MORE PARTICIPATION by the building industry in research and a greater awareness of the need for all round efficiency was made by SIR HUGH BEAVER, KBE, at the annual luncheon of the Federation of Master Builders held at the Connaught Rooms, London, WC, on June 5. Sir Hugh was proposing the toast of 'The Federation' in which he thanked the building industry in general and the members of the Federation in particular for their ardent co-operation during the early and pregnant war years when he was at the Ministry (then the Office) of Works.

'The building industry,' he said, 'rose admirably to the occasion despite the hazards of registration, grouping and finally, conscription of builders, the latter resulting in manpower being drawn away until it was less than 40 per cent of the pre-war level.'

Sir Hugh was fervent in his praise for all sections of the building and construction industries for its war and post-war achievements. Although, he continued, in recent years he had been somewhat distracted by such things as beer (he has recently retired from the board of a well-known brewer of stout) he had subsequently been a member of a new towns committee and a committee of inquiry into costs in the building industry. Looking at the industry from a broader aspect than hitherto he saw that it employed from 8 to 9 per cent of the total male labour force in the country, and its ancillary and associated industries, such as the materials manufacturers and carriers of materials, accounted for a further immense share of the economy of the country. He reminded his listeners of the extent of this share in the overall economy by quoting the figure for production in the building industry for the first quarter of this year, a period which, he said, was traditionally the least productive by virtue of, among other things, the weather. The figure he quoted was £669m.

Turning to the question of research the speaker thought that the country as a whole, and especially the building industry, was not making its proper contribution in this field, nor was it making full use of what research it did carry out. His experience with the DSIR was that the situation was not as it should be.

Concluding on a challenging note Sir Hugh pointed out that in order to survive in the field of world competition it was necessary to be efficient and ever more efficient. Efficiency, he inferred, had to take the place of the supremacy in markets and money which we once had but had since lost through the waging and winning of two world wars. Exports, he said, were as vital to this country as was water to a man's life.

# Building and Public Works

## *Exhibition at Castle Bromwich*

AT the Building and Public Works Exhibition at Castle Bromwich, Birmingham, June 14-24, over £1 million worth of equipment will be on view and continuous demonstrations are being arranged with actual equipment and working models. The industrial and domestic uses of CALOR gas are demonstrated and a comprehensive range of mechanical handling equipment, earth-moving and other contractors' plant can be seen. One working model will be of a cement works, clearly illustrating the process of cement manufacture, and a specially constructed demonstration lorry shows the technique of handling packaged bricks.

Other exhibits are of kitchen equipment, fireplaces, bathroom furniture and household fittings. Among the exhibitors are BOULTON SCAFFOLDING LTD., showing a range of their scaffolding equipment, the CEMENT MARKETING CO., LTD., and HILGER & WATTS LTD., at whose stand one can browse over surveying equipment and instruments. For improved bonding, SEALOCRETE PRODUCTS LTD. are exhibiting their cement additives and mortar plasticisers whilst an interesting range of ceramic wall and fireplace tiles is being displayed by RICHARDS TILES LTD. Other exhibitors include RAMSET FASTENERS LTD. (cartridge hammers), MARLEY TILE & CO., LTD., AMEY'S ASPHALTE CO., THOS. W. WARD LTD., BERRY WIGGINS & CO. (bitumen products), COMMERCE FACTORS (GB) LTD. (poron insulations), EVER-TIDY (KITCHEN CABINETS) LTD., DURATUBE & WIRE LTD., CAFFERATA & CO., LTD. (general plaster products), ZINC ALLOY RUST PROOFING CO., LTD., BOWMAKER (PLANT) LTD. (caterpillar tractors), EXPANDITE LTD. and STERLING-SAFWAY.

The exhibition will be officially opened by Air Vice-Marshal Sir Robert George, KCMG, KCVO, KBE, CB, MC (formerly Governor-General of South Australia).

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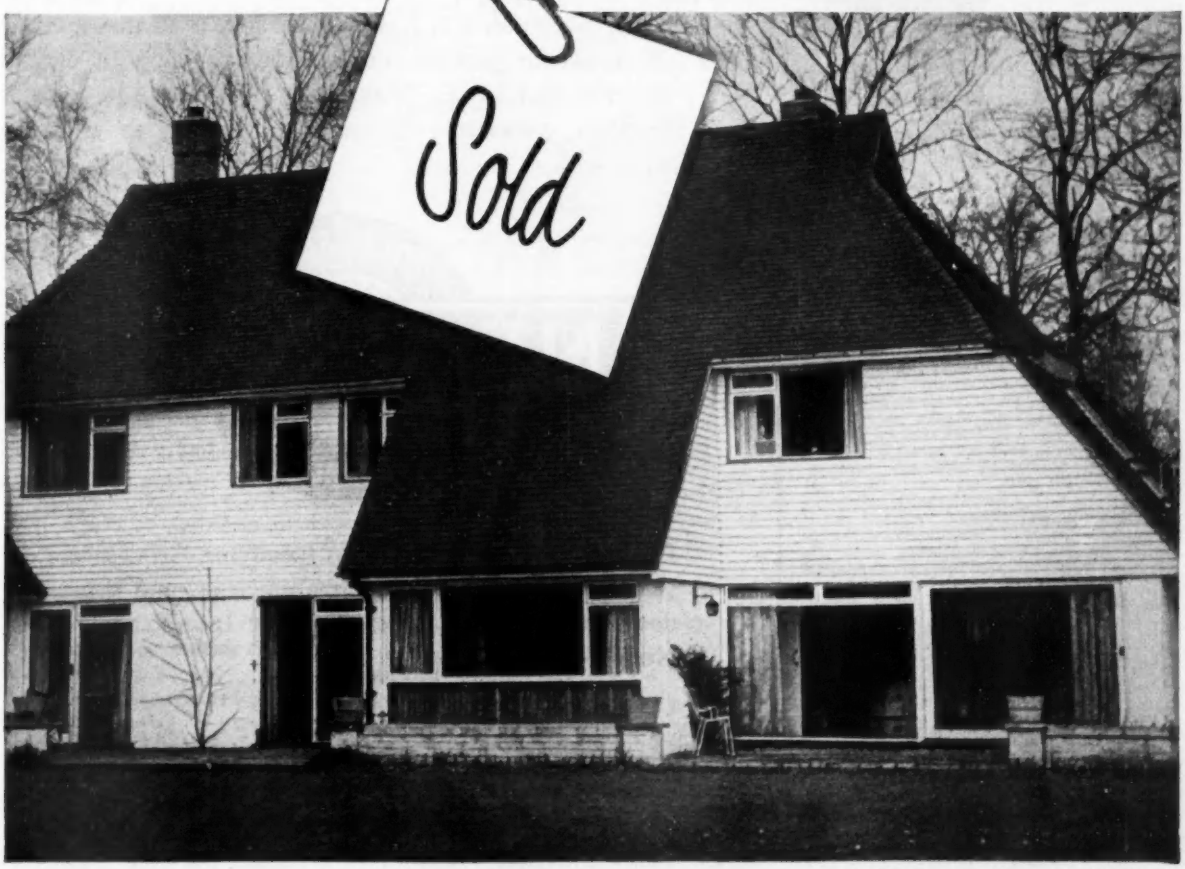


*Architect: Roger Simmonds A.R.I.B.A.*

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# News In Brief

### Building Societies' Interest Rates

BECAUSE of a slowing-down in the amount of savings placed with building societies and a tendency for withdrawals to increase, the council of the Building Societies Association has recommended to members that the rate of interest paid on ordinary shares should be increased from 3½ to 3¾ per cent on or after October 1. A further recommendation that the mortgage rate should be increased from 6 to 6½ per cent has also been announced. The latter, where adopted, will apply to new borrowers immediately and to existing borrowers from October 1.

### New Secretary of Gas Council

MR. R. G. HUXTABLE, MBE, is to be the new secretary of the Gas Council. On August 1, he succeeds Mr. Wilfrid Bailey, who becomes deputy chairman of the Southern Gas Board.

### Change of Address

WALTER W. JENKINS & CO. LTD., specialists in marble, granite and slate, announce that, as from June 12, their London office will move to 9 Brady-street, E1 (tel.: Bishopsgate 3431/2).

### The Royal Tournament

THE ROYAL TOURNAMENT, held annually in aid of service charities, this year reaches new heights of performance. Staged at Earls Court, displays are at 2.30 p.m. and 7.30 p.m. daily until June 17. There is no afternoon performance on June 12. The box office telephone number is Fulham 8591.

### Off to Duisburg

DAVID TERRY, aged 20, employed by William F. Blay Ltd., of Dartford, Kent, has been chosen by Erith Technical College's Department of Building to take part in the fourth annual International Apprentice Competition in Duisburg, Germany, on June 30. He, with one other student, has been chosen to represent England against all the other major European countries in the carpentry and joinery section.

### Motorway Men in Air Race

MR. P. A. FITZPATRICK, principal in the company, Fitzpatrick & Son (Contractors) Ltd., one of the members of the consortium construoting the Doncaster Motorway and the Hyde Park Improvement Scheme has entered his aircraft in the King's Cup Air Race.

### Cast Stone and Concrete Federation

AT THE COUNCIL MEETING of the Cast Stone and Concrete Federation, held in London on May 25, Mr. David M. Chaston, FIOB, was elected chairman for the forthcoming two years. Mr. F. L. Williamson, of the Stanton Ironworks Co. Ltd., was elected vice-chairman, and Mr. J. Richardson, of the Helical Bar and Engineering Co. Ltd., re-elected treasurer.

### European Timber Market Prospects

ACCORDING TO the latest edition of the 'Timber Bulletin for Europe,' published jointly by the Secretariats of the United Nations Economic Commission for Europe and the Food and Agriculture Organisation, peak consumption and a high level of production and trade during 1960 presages good prospects for 1961. The year 1960 was an excellent one for the timber and prices remained firm. Copies of the Bulletin may be obtained from HM Stationery office, price 7s.

### Housing and Rent Policies

'RENTS IN PERSPECTIVE' is the title of a survey of British housing and rent policies since 1914 by Mr. Geoffrey Block, OBE, originally submitted as a German translation to an international symposium on rent and housing policy organised by the Austrian People's Party and held in Vienna in November, 1960. The paper has now been published by the Conservative Political Centre, 32, Smith-square, London, SW1, from whom copies, price 9d., may be obtained.

### Auckland Harbour Bridge Discussion

TWO PAPERS dealing with the design and construction of Auckland Harbour Bridge, New Zealand, were submitted to the ordinary general meeting of the Institution of Civil Engineers on June 1. The design paper was by Mr. Gilbert Roberts, BSc, MICE, and Mr. Oleg A. Kerensky, BSc, MICE, of Freeman, Fox and Partners, consulting engineers; and the paper on the construction by Mr. H. S. Smith, OBE, MICE, of the Cleveland Bridge Engineering Co., Ltd., and Mr. J. F. Pain, MC, MICE, of Dorman Long (Bridge and Engineering) Ltd. Both papers were offered for immediate discussion and subsequent written discussion.


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### New Kite-Mark Licensees

BRITISH INDICATORS (SALES) LTD., of St. Albans, Herts., has been granted a licence by the British Standards Institution to apply the Kite-mark to their range of dial gauges for linear measurement manufactured in accordance with BS907.

THE GYPSUM MINES LTD., of Robertsbridge, Sussex, have been granted a licence to apply the Kite-mark to their range of gypsum building plasters manufactured in accordance with BS1191, and Gent and Company Ltd., of Leicester, have been granted a licence for their range of heat sensitive detectors for automatic fire alarms in buildings, manufactured in accordance with BS 3116.

## Company News

C. H. JOHNSON (MACHINERY) LTD. announce the formation of their Australian Branch into a subsidiary company—C. H. JOHNSON (MACHINERY) LTD., with head office and works at 593 Waterdale-rd., West Heidelberg, Victoria, Australia. MR. F. BLACKSHAW has been appointed a director of the company, and will be its general manager.

THE LIMMER & TRINIDAD LAKE ASPHALT CO. LTD. recommend the payment of final dividend of 13 per cent (less tax) on the ordinary shares of the company for the year ended December 31, 1960.

At a meeting held recently the board of EASTWOODS LTD. declared an interim dividend of 7½ per cent (less tax) on the £2,000,000 ordinary stock of the company in respect of the year ended March 31, 1961, and, subject to unforeseen circumstances, the directors expect to recommend, in due course, a final dividend of 12½ per cent to make a total for the year of 20 per cent (less tax), which will compare with 17½ per cent. for the previous year.

The directors of TURNER & NEWALL LTD. at a board meeting held on May 25 decided to declare an interim dividend in respect of the year ending September 30, 1961, on the ordinary stock of the company at the rate of 4 per cent (less tax) at 7s. 9d. in the £.

## Personal Column

Allied Ironfounders Ltd. announce that owing to differences of views on policy, MR. H. C. WILSON BENNETTS has, by mutual agreement, resigned from the board of the company with effect from May 31, 1961.

MR. W. J. TAYLOR has joined Austins of East Ham Limited and will represent them in Hampshire, Wiltshire and Dorset.

MR. R. H. WILSON has been appointed to the board of directors of CIBA (ARL) Ltd.

MR. M. R. PARKER has been appointed a director of Bakelite Ltd.

MR. D. R. CAPON has been appointed a sales manager, domestic equipment division, of Helimatic Ltd., the UK sales office of Elektrohelios of Sweden.

The board of Tarmac Ltd. announce the following appointments to subsidiary boards: MR. R. H. MORRAY-JONES to be director of Tarmac Roadstone Ltd. and MR. N. V. MAIN, a director of Tarmac Vinculum Ltd.

The board of Blaw Knox Ltd. has appointed REAR ADMIRAL A. J. TYNDALE-BISCOE managing director of the Construction Machinery and Steelworks Departments.

MR. F. A. PULLINGER, managing director of G. N. Haden & Sons Ltd., has been appointed chairman and managing director, with effect from July 31. MR. J. R. PATERSON has relinquished the chairmanship of the company in accordance with a long-expressed wish to retire from business life in 1961.

MR. H. F. G. WAKELIN, aged 41, has joined The Airscrew Company & Jicwood Ltd., of Weybridge, Surrey, as sales executive with the Board Division. He will be responsible for sales of the full range of 'Weyroc' particle boards and for 'Hardec.'

# OVERSEAS BUILDING

*From Our Own Correspondents*

AUSTRALIA (NORTHERN).—A £1½ million contract has been awarded to Davis Contractors Pty., Ltd., a subsidiary of Davis Estates Ltd., for excavation and ancillary work at Rum Jungle.

BWI (TRINIDAD).—Barclays Bank DCO reports that Frankipile Ltd. has almost completed the piling for the new Furness, Withy and Co. office building, and a start has been made on the Diego Martin housing project by Homes International. Work has also commenced on Messrs. Sisson's paint factory at Chaguanas.

CANADA (NEW BRUNSWICK).—Discussions are under way for the construction of an international airport to serve the northern part of the province.

CANADA (ALBERTA).—Construction is expected to start this year on Calgary's multi-million-dollar provincial hospital. . . . A new Federal Building is to be built at Lacombe.

CANADA (BRITISH COLUMBIA). — The Grosvenor Laing Co. has been awarded a $25m. contract to construct Guildford Garden City in Surrey. Building operations will start shortly. . . . A $1m. civic centre is scheduled for New Westminster. . . . A $1.7m. hospital is to be built at Fort St. John. . . . The University of British Columbia is to have a new $1.29m. women's residence. . . . A $30m. oil pipeline is to be constructed from Fort St. John to Savona. . . . A $1.5m. addition is planned for St. Paul's Hospital, Vancouver. . . . A $1.25m. sports arena is to be built at University of British Columbia. . . . The Consolidated Mining and Smelting Co. plan the construction of a $20m. smelter at Kimberley. . . . The Western Canada Steel Co. plans to build a new plant at Vancouver. . . . Tenders are shortly to be called for the $3m. College of Education Building at the University of British Columbia.

CANADA (MANITOBA).—The Provincial Government has announced a $10m. school construction programme and a $6.5m. hospital construction programme. . . . Commonwealth Construction Ltd. has been awarded an $8,933,409 contract to complete the final stage of the Winnipeg air terminal. Completion is scheduled for 1964. The terminal building will consist of two blocks, linked by an enclosed bridge, an eight-storey administration block topped by the control tower, and a large two-storey building for travellers.

CANADA (NEWFOUNDLAND).—The Chalker Co. is to construct a packaging and processing plant at St. John's.

CANADA (NEW BRUNSWICK).—The Hind & Dauch Paper Co. is to construct a $1.8m. addition to its plant at Moncton.

CANADA (NORTHWEST TERRITORIES).—Tenders have been invited for the construction of a terminal building at Inuvik Airport.

CANADA (NOVA SCOTIA).—The Canadian Keyes Fibre Co. has announced a $1m. construction programme at Hantsport. . . . Union Carbide has announced the construction of a plant at Halifax.

CANADA (QUEBEC).—A $4m. contract has been let to construct a new port at Point au Pere. . . . The Simpson-Seers Co. is to start construction this year on a complete new department store in Quebec City.

CANADA (SASKATCHEWAN).—A $1.3m. construction programme has been announced by the Co-operative Refineries at Regina.

NEW ZEALAND.—The Auckland Hospital Board has approved a Government grant requirement of nearly £4m., most of which will be spent on the new National Women's Hospital and nurses' home.

SPAIN.—Centrales Nucleares (Cenusa) has applied for authorisation to build a nuclear power station on the river Tagus in the district of Polán, Toledo. The power station, which would have a capacity of 250,000 kW, would cost 3,212½m. pesetas, with 1,687½m. pesetas used for expenditure abroad.

VENEZUELA.—The Venezuelan Government is negotiating with the IBRD for a US$40m. loan to finance the construction of the Tejerías-El Valle and Valencia-Puerto Cabello highways.

**Construction Equipment for Argentina**

A PACKAGE DEAL has been arranged through Mercator SA, of Buenos Aires, for the supply of British construction equipment to the value of £350,000. The equipment, comprising tractor shovels, graders and compressors, is destined for Neuquén, a mining and tourist province of the Argentine. British firms involved are: Construction Machinery Ltd., of Wakefield, Yorkshire; Chaseside Engineering Co. Ltd., of Hertford, Herts.; Broom and Wade Ltd., of High Wycombe, Bucks:; and International Harvester Co. Ltd., of London, EC1.

# SCOTTISH BUILDER

**Housing in Scotland**

THE NUMBER of new houses completed in Scotland in April was 2,120. This brings the total of completions this year to 9,072, a decrease of 501 compared with the same period last year. The monthly housing summary of the Department of Health for Scotland and the Ministry of Housing and Local Government (HM Stationery Office, price 3d.) states that of the 418,707 houses built since the war in Scotland, 376,359 have been built by public authorities and 42,348 by private builders.

## New Buildings

ABERDEEN. — Northern Co-operative Society Ltd. plans to demolish houses and shops in George-st., Aberdeen, and rebuild entirely at a cost of £1m.

DUNDEE.—North of Scotland Hydro-Electric Bd. propose new stores, depot, workshops and garage at Mid Craigie-rd. Applications to Area Office, 7 Dudhope-cres., Dundee. Tenders by July 26.

EAST KILBRIDE.—A large commercial office block is to be erected in the centre of East Kilbride by Norwich Union Insurance Societies Ltd. The nine-storey office and shop block will have 16 ground level shops and a 38,000 sq. ft. central tower. . . . Ravenseft Properties Ltd. are to start a 24-shop development in the centre of East Kilbride.

EDINBURGH.—Work on the redevelopment of Central Leith is to start in the autumn with the erection of two 20-storey blocks of flats. Permission for the project has been granted to the Corporation by Edinburgh Dean of Guild Court. A spokesman for the architects, Alison & Hutchison & Ptnrs., Edinburgh, said the blocks would form the first phase of the redevelopment. Features of them are that garages will be at ground level, the houses starting on the first floor, and there will be twin lifts in each block, communal laundries, drying areas and under-floor electric heating. Estimated cost of the blocks, which are to be sited at Couper-st., is £430,000.

FALKIRK.—William Milne (Falkirk) Ltd., boxmakers, are to spend £42,000 on a new factory at Burnbank-rd., Falkirk. . . . Concrete (Scotland) Ltd. are to spend £15,000 on a three-storey extension to their existing office block at Etna-rd., Falkirk.

GLASGOW.—A proposal to erect a £3m. housing scheme on the Linn Park golf course and construct an 18-hole golf course at the city boundary at Castlemilk has been approved by the housing sub-committee of Glasgow Corpn. The proposal now goes to the housing com. for approval and to the park and plannings coms. for their consideration.

GLASGOW.—Allan Glen's senior sec. sch. is to be rebuilt. Work will be on a several contracts basis and contractors interested are invited to apply to the Director of Planning, 20 Trongate, Glasgow. . . . Two new multi-storey schemes involving 942 flats at a cost of £2.5 million are planned for the city. One is at Ibroxholm, a redevelopment, and the other at a new development area near Mosspark. The Ibroxholm development will begin not later than next spring on a seven-acre site, involving three 22-storey blocks, one 5-storey block, two 3-storey blocks and three 2-storey blocks. The Mosspark development will begin at the end of the year and will be one of the biggest schemes of new building yet tackled, with five 22-storey blocks as the main feature. . . . Rolls-Royce Ltd. are to build a single-storey storage block at 396-406 Hillington-rd., Glasgow. . . . Crow, Hamilton & Co. Ltd. are to build an extension to their works at 47 Haggs-rd., Glasgow. . . . Scottish Brewers Ltd. have received approval for an extension to their warehouse premises at 78 Port Dundas-rd.

KIRKCALDY.—TC invite tenders for 36,000 sq. yd. of roadway surfacing. Burgh E, Town House, Kirkcaldy. Tenders by June 19.

OBAN.—The fishermen's mission planned for Oban will be a two-storey building costing £15,000. It will include a canteen, sleeping accommodation, showers, and a recreation room equipped with television.

RUTHERGLEN.—Plans to the value of £33,000 have been passed at Rutherglen Dean of Guild Court. A petition by Associated Chrome and Chemicals, Glasgow-rd., Rutherglen, to build a 35ft. water-cooling tower was approved. The tower will cost £21,000. The Richmond Park Laundry, Rutherglen, were given permission to alter their premises at East Main-st. at a cost of £12,000.

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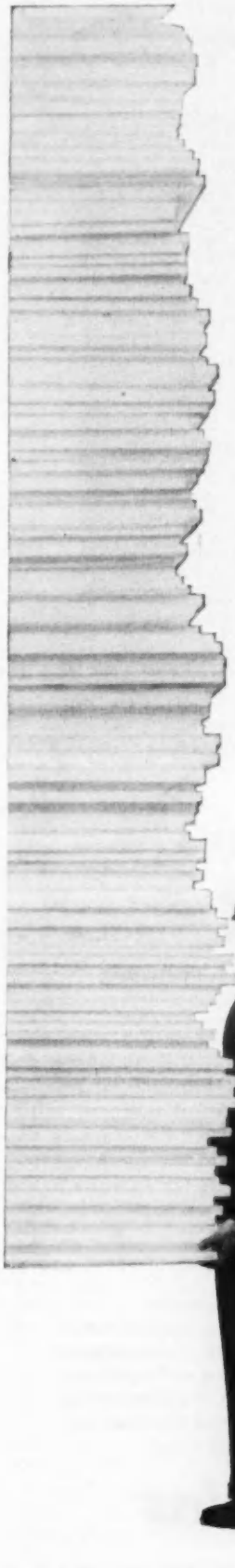

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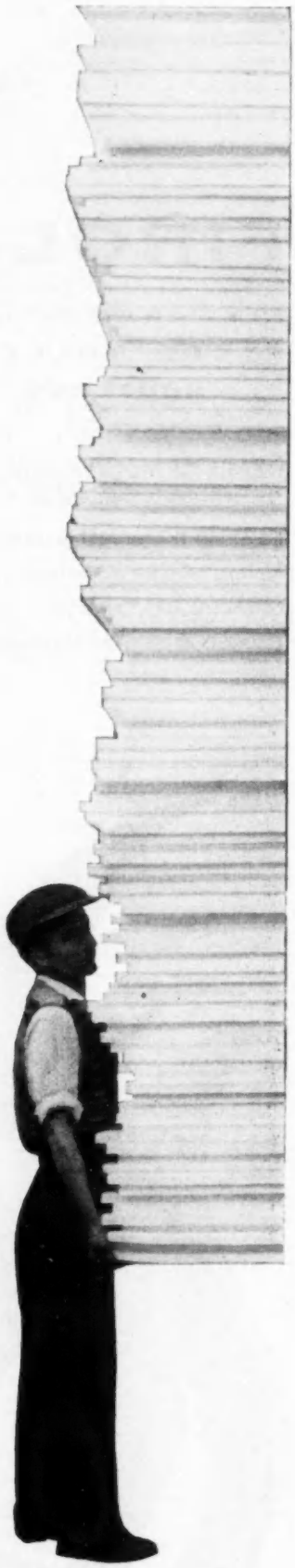

# THE BUILDER CONSTRUCTION NEWS

*Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.*

## CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

### BUILDING

**JUNE 13**

(AR) ARNOLD UDC.—Erection of 14 flats, etc., at St. Alban's-rd. J. Howitt & Son, architects, Bentinck-bldgs., Wheeler Gate, Nottingham. Dep. £2 2s. Tenders by July 24.

**JUNE 15**

(AR) BIRMINGHAM CITY C.—Firm price tenders for the erection of junior training centres at Erdington, Strechford and Harborne. City A.

**JUNE 16**

(AR) CANTERBURY CITY C.—Inclusion in selected list of approved building contractors. TC.

**JUNE 17**

CARLOW (Eire) CC.—Erection of 24 rural cottages in various parts of county. Managing Secretary, Athy-row, Carlow, Eire. Dep. £10 10s.

(AR) ESSEX CC.—Extensions and conversions at Fryerns sec. tech. sch., Basildon. County A.

LOUGHREA (Eire).—Proposed factory for Hohner Panoramic Ltd. A. G. Jennings & Associates, O'Connell-st., Sligo, Eire. Dep. £25.

(AR) SWINDON BC.—Modernisation of swimming baths. Boro' A.

**JUNE 19**

(AR) GLOUCESTER CC.—Extensions to Berry Hill sec. sch. County A. Dep. £2 2s.

(AR) WATFORD BC.—Erection of one pair of houses at Cassiobury Park. Boro' E. Tenders by July 3.

**JUNE 20**

(AR) TOTTENHAM BC.—Erection of community centre at Allington estate. Boro' E. Dep. £2 2s.

**JUNE 29**

NORTHERN IRELAND MINISTRY OF FINANCE.—Construction of head post office at Hill-st., Newry, Co. Down. Room 103, Law Courts-bldg., Belfast. Dep. £5.

**JUNE 30**

(A) DORKING UDC.—Re-modelling of Council's depot, Station-rd. E&S.

(AR) HOVE CORPN.—Erection of 48 flats at Chichester-cl. Boro' E&S. Dep. £3 3s. Tenders by Sept. 4.

**JULY 3**

(A) KEYNSHAM UDC.—Erection of dwellings and garages at Broadlands estate. A to C. Dep. £2 2s.

(A) MARKET HARBOROUGH UDC.—Erection of a slaughterhouse at Springfield-st. E&S. Dep. £2 2s.

(A) WELWYN GARDEN CITY UDC.—Fixed price tenders for a public convenience at Hall-gr. C. W. Fox, architect, National Provincial Bank-chbrs., Welwyn Garden City.

(A) WREXHAM BC.—Fixed price tenders for: (a) 20 dwellings and 16 garages at Ashfield-rd.; and (b) eight bungalows and eight garages at Connor-cres. and Kingsley Circle. Boro' E&S. Dep. £2 2s.

**JULY 4**

(A) CROYDON CBC.—Erection of 84 dwellings and 41 garages at Monks Hill housing estate. Boro' E.

DUBLIN (Eire) CORPN.—Erection of one five-storey block containing ten flats and 20 maisonettes and of four houses at Union-pl. housing area. City Treasurer. Dep. £15 15s.

**JULY 6**

(A) HEMEL HEMPSTEAD BC.—Erection of 15 houses and 21 garages, etc., at Woodcres. Boro' E&S.

**JULY 7**

(A) EASTLEIGH BC.—Firm price tenders for 50 dwellings, etc., at Velmore estate. Boro' E&S. Dep. £2 2s.

(A) GT. YARMOUTH CBC.—Fixed price tenders for: (a) 14 flats and seven maisonettes at Yarmouth Way; (b) alteration and conversion of 56 aged persons' flats at Grenville-pl. Boro' E. Dep. £2 2s.

(A) SHEFFIELD CORPN.—Fixed price tenders for housing and ancillary works at Elvington, York. Gen. Mgr. & E. Dep. £2 2s.

(A) SOUTHEND-ON-SEA CBC.—Proposed extensions to staff room at Westleigh jun. sch. Boro' A.

**JULY 10**

(A) GOSPORT BC.—(a) Erection of ten bungalows at Wych-la., and (b) 12 dwellings at Gorselands-way. Boro' E. Dep. £2 2s.

**JULY 12**

(A) CHESHIRE CC.—Final instalment of Eastham Carlett Park Centre College of Further Education. County A. Dep. £2 2s.

**JULY 21**

(A) BRAINTREE & BARKING UDC.—Fixed price tenders for a sports pavilion at King George's Field. S. Dep. £2 2s.

**AUGUST 9**

(A) POOLE BC.—Reconstruction and extension of Kemp Welch sec. schs. Boro' A. Dep. £5 5s.

**NO DATE**

(A) BRISTOL EC.—Erection of changing room, and adaptations to cloakroom and chemistry laboratory at Merrywood gram. sch. for boys. Ch. Ed. Officer.

### SERVICES, PAINTING, MATERIALS, ETC.

**JUNE 30**

(A) EALING BC.—External painting works at various schools and educational establishments. Boro' E. Dep. £2.

(A) WANSTEAD & WOODFORD BC.—Provision and erection of concrete fencing at Maldon Walk, Woodford. Boro' E. Dep. £2.

**JULY 3**

(A) RICHMOND (Surrey) BC.—Erection of 1,500 yd. of dwarf brick walls to the front boundaries of houses in the Ham area. Boro' E&S.

(A) WREXHAM BC.—Fixed price tenders for various fittings and supplies to 100 dwellings. Boro' E&S.

**JULY 7**

(A) KEIGHLEY BC.—Erection of four aluminium greenhouses at Cliffe Castle. Boro' A. Dep. £1.

(AR) POOLE BC.—Services and materials, etc., for Kemp Welch sec. schs. Boro' A.

### MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

**JUNE 22**

AYLESBURY BC.—Fixed price tenders for the widening and improvement of Bicester-rd. Boro' E&S. Dep. £2 2s.

**JUNE 28**

TAUNTON RDC.—Fixed price tenders for the laying of about 11,200 lin. yd. of 9 in. and 6 in. diameter sewers with concrete manholes and all ancillary works for Trull Sewerage. Harvey, McGill & Hayes, constg. engrs., 8 Richmond-rd., Exeter. Dep. £5 5s.

## GENERAL BUILDING WORK (LONDON)

LONDON (City).—New Head Office.—The Directors of the Sun Insurance Office Ltd. have decided to rebuild 63 Threadneedle-st. in conjunction with the rebuilding of The Stock Exchange. They plan to commence in 1963. Professor Llewelyn Davies and Mr. Fitzroy Robinson have been appointed as consulting and executive architects, respectively. The 'Sun' offices have been on the corner of Threadneedle-st. and Bartholomew-la. since 1842 and the part of the present building which was erected at that time is considered to have some architectural interest in that it is one of the few remaining examples of the work of Sydney Cockerell.

### (PROVINCIAL)

ANDOVER.—Hampshire County Planning Com. has approved for submission to the Minister of Housing & Local Government, Andover's new town map. An area of about 290 acres is to be designated for compulsory purchase for industry.

ASHTON-UNDER-LYNE. — BC propose residential development of a 2.7-acre site at Lumb-la. . . . Lancs. EC propose erection of county college on 13-acre site at Lumb-la.

AYLESBURY. — BC propose housing scheme at Dunsham-la.

BARNSLEY.—BC propose erection of sch. for ESN children. Est. £77,212. . . . William Stones Ltd., Sheffield, propose erection of PH at Bank-end.

BILLINGHAM - ON - TEES. — Imperial Chemical Industries Ltd. are to erect amenity buildings and offices at Billingham.

BISHOP AUCKLAND.—Acting on behalf of the Maypole Dairy Co., Messrs. Healey & Baker, estate agents, London, have bought for £80,000 a cinema, ballroom, restaurant and a number of shops in Newgate-st., Bishop Auckland, which will be demolished to make way for a supermarket.

BLACKBURN.—Massey's Burnley Brewery propose erection of new hotel with theatre over on site of Commercial Hotel, after demolition.

BLACKWELL.—RDC propose erection of 24 dwellings at Kirkstead.

BLAYDON (Co. Durham).—The planning authorities are considering outline proposals for a residential hotel at Shibdon-rd., Blaydon. Promoters are Shield Bros., builders, Swalwell, Co. Durham. Architects: Stephenson, Gillis & Ptnrs., Saville-chbrs., Newcastle-on-Tyne.

BOLDON (Co. Durham).—Messrs. Gordon Durham & Co. Ltd., builders and contractors, East Boldon, are to erect 54 houses at Sunniside-ter., Cleadon.

BOLTON.—BC propose erection of 4 blocks dwellings to complete School Hill site.

CARLISLE.—A modernisation programme,

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costing between £350,000 and £400,000, is to be carried out at the works of the Metal Box Co. Ltd., in James-st., Carlisle.

CARLISLE.—Prices Tailors Ltd., Cardigan-cres., Kirkstall-rd., Leeds 4, and Littlewood Mail Order Stores Ltd., Liverpool, are to redevelop their property at 50-64 English-st., Carlisle.

CHESTER.—Approval in principle has been given by Ches. CC for the erection of joint health offices/clinic centre, adjacent central redevelopment scheme.

CHESTER-LE-STREET.—RDC is planning the erection of new council offices. Council's architect is F. Bowman, Estate Office, Birtley, Co. Durham. . . . William Leech (Builders) Ltd., 7 St. James'-st., Newcastle-on-Tyne, are to erect a further 54 houses on the Whitelands estate, Birtley, and 92 on the Wentworth Park estate, Ouston. Plans approved.

CHESTER-LE-STREET.—The Caterpillar Tractor Co. Ltd. are to erect offices and medical centre. Architects: Wilkin, Hamilton & Wilkin, 5 Woodside-ter., Glasgow, C3. . . . The London & Newcastle Tea Co. Ltd. are to construct large warehouse and offices at Pelaw Hill Farm, Chester-le-Street. Plans submitted by Harrowsgate Holdings Ltd., Welwyn Garden City, Herts., are under consideration.

COLWYN BAY.—Denbighs. CC propose extensions to gram. sch. Est. £22,500.

DARLINGTON.—Cordingley & McIntyre, Owengate, Durham City, are the architects for church hall at St. Luke's Church, Corporation-rd. . . . Shops are proposed at Northgate for Ravenseft Properties Ltd., to plans by North & Ptnrs., 40 Broadway, Maidenhead.

EGAM.—UDC propose erection of new youth centre at 'The Limes.' Est. £21,400.

ELLESMERE PORT.—RC Auth. propose erection of new prim. sch., and Ches. EC propose erection of new prim. sch., both at Wolverham.

EXETER.—Lillywhites Ltd., of Piccadilly Circus, London, are to build a new store in the High-st. for their subsidiary company, Webber (Sports) Ltd.

FAREHAM.—UDC propose erection of 600 dwellings at the West End estate.

FILEY.—BC propose erection of a two-storey, café, shop and ten chalets. Est. £55,000.

FROME.—Graham Lyon Motels Ltd. propose erection of a motel at Bath-rd. Architects: Erdi & Rabson, London.

GOSFORTH (Northumberland).—Oakfield-hse., Gosforth, is to be converted into private day sch. for girls. Architects: Mauchlen, Weightman & Elphick, 12 Saville-row, Newcastle-on-Tyne.

HEXHAM. — Morrison & Short, 11 Clayton-rd., Newcastle-on-Tyne, have prepared plans for small trading estate at Acomb for Perry & Ptnrs.

HEXHAM.—C. Solomon, 30 St. Mary's-pl., Newcastle-on-Tyne, is the architect for supermarket at Fore-st. for Hadrian Supply Stores Ltd., Norham-rd. North Shields. Work is expected to start towards the end of the summer.

LEATHERHEAD.—Unilever Group propose research centre at the Downside estate.

LIVERPOOL.—Regional Hospital Bd. propose upgrading of two wards at Newsham General Hospital. . . . The Metal Box Co. Ltd. propose erection of new factory on eight acres of land at Evans-rd., Speke. . . . Thames Estates & Investments Ltd. propose erection of showrooms/shops/offices at Moor-st. . . . The Church of Jesus Christ of Latter Day Saints propose erection of new Chapel at Mill Bank.

LUTON.—St. Albans Diocesan Assn. for the Deaf & Dumb propose erection of church and community centre for the deaf and dumb at Bedford-rd. Architect: W. G. Apps, 10 Pollard-st., London, N20.

MACCLESFIELD.—Manchester Regional Hospital Bd. propose the erection of a 400-bed hospital on site of West Park Hospital within the next ten years. Est. £2m.

MORECAMBE.—Branchwood Properties Ltd., of London, are to build a new supermarket on a site in Euston-rd., Morecambe.

NEWBURN (Northumberland).—Planning approval is being sought for the erection of a community centre at West Denton. Architects: Percy L. Browne & Son, Northumberland-st., Newcastle-on-Tyne.

NEWBURY.—BC propose erection of 32 flats at the Turnpike-rd. estate.

NEWCASTLE-ON-TYNE. — Federated Properties Ltd., Southend, Fernwood-rd., Jesmond, Newcastle-on-Tyne, are planning the conversion of the Regal Cinema, Two Ball Lonnen, into business premises. . . . Conditional approval has been given to plans by John T. Bell & Sons, builders, Market-chbrs., New Market-st., Newcastle, for the erection of a five-storey office block at Archbold-ter., Newcastle.

NORTHERN IRELAND.—The Northern Ireland Government is to spend £35m. on roads during the next five years—apart from the considerable expenditure by local authorities. In the past five years Government expenditure has been £30m. on new roads. Priority is being given to the South Approach Road between Belfast and Dungannon, costing £10m., and it is hoped that the first section will be completed by early next year.

ROYTON.—UDC propose erection of 67 dwellings, 3 shops and garages at Gravelhole.

SALFORD.—The Trustees of the Methodist Church propose erection of new church/Sunday sch. at Eccles Old-rd.

SALISBURY.—City C has agreed to buy the Odeon Cinema, Fisherton-st., for £33,000 for conversion to civic hall at further estimated cost of £40,000.

SEDGLEY.—UDC propose residential development at Sedgley Hall Farm.

SOUTHPORT.—RC Auth. propose erection of Our Lady of Lourdes sec. mod. sch.

SOUTH SHIELDS.—TC is being recommended to approve a £55,600 scheme for transforming land adjoining Temple Memorial Park into a rural retreat. The work will be spread over several years. Boro' E is John Reid.

SUNDERLAND.—TC is seeking sanction to build two more old people's hostels. Boro' A is H. C. Bishop.

SURBITON.—BC propose extensions to the central library. Architects: Anderson & Eglington, 20a Eden-st., Kingston-on-Thames.

SWINDON.—Sealey Engineering Co. Ltd., London, propose erection of new factory at the industrial estate.

TAPLOW.—Laurence Weaver Ltd., Slough, propose a three-storey block of flats and garages on the site of Ellington Lodge, Ellington-rd.

TWICKENHAM.—BC propose erection of 20 houses, two blocks of aged persons' dwellings and terrace of four houses at Chertsey-rd. . . . Plans submitted to BC include six flats and garages at Holme Lodge, Anlady-rd., Teddington, for Sloggatts (Properties) Ltd.; five flats and eight garages at 37 Popes-ave., for E. J. Gregory Carlton, Twickenham.

WATERLOOVILLE (Hants.). — Havant Planning Com. has given outline permission to Home Counties Development Ltd. to erect a shopping precinct, with nine shops, maisonettes and 17 garages, on Highfield estate.

WATFORD.—Hills & Lavey Ltd. propose extensions to printing works at Carey-pl. Architects: Ley, Colbeck & Ptnrs., London.

WHITCHURCH.—Provided MoH&LG and Kingsclere & Whitchurch RDC agree, Hampshire County Planning Com. is to allow erection of factory at Whitchurch for Messrs. Russell Sandwith Ltd.

WILTSHIRE.—CC is recommended to approve tenders for: Erection of special sch. at Chippenham (£151,903); and extensions to Wilton cty. sec. mod. sch. (£144,106).

WINCHESTER.—Hampshire CC is recommended to sanction purchase of 2¼ acres of land in grounds of 'The Grange,' St. Cross, as site for new home for senile women.

WINNERSH.—Glamford Building Co. Ltd. propose development of Kelburne Lodge, Robin Hood-la. Architect: G. H. Huckle. Inquiry held.

WOKINGHAM.—Mr. J. C. Thomas proposes development for housing of a seven-acre site off Doles-la.

WYCOMBE.—RDC propose erection of 100 flats at Princes Risborough, Wooburn and Bourne End.

## Contracts Placed

***We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.***

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## TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

AYRSHIRE. — Construction of a four-storey office block at Ardeer for the Nobel Division of ICI Ltd. Architects: T. P. Bennett & Son. (A) Mitchell Construction Co. Ltd., £½m.

BELFAST.—Erection of a new branch bank at Shaftesbury-sq. for Ulster Bank Ltd. (A) J. & R. Thompson Ltd., Roden-st., Belfast 12. Est. £180,000.

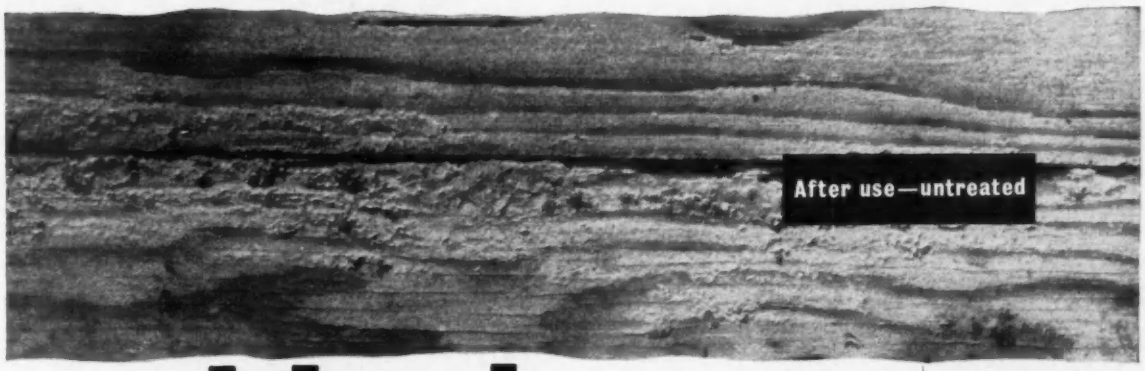
BERKS.—Erection of new gram. sch. at Theale for CC. (A) Goodall, Barnard & Clayton Ltd., Basingstoke.

BLAYDON (Co. Durham).—Erection of RC church and hall at Winlaton. Architect: David Brown, 10 Lambton-rd., Jesmond, Newcastle-on-Tyne. (A) J. H. Fisher & Co. Ltd., 12 Lansdowne-ter., Gosforth, Newcastle-on-Tyne, £47,000 (work to start immediately).

BRISTOL.—New office block at the corner of High-st. and Bridge-st. for the Norwich Union Insurance Societies. (A) William Cowlin & Son Ltd., Bristol.

BUCKS.—Extension to factory, office and canteen for Dzus Fasteners (Europe) Ltd. Architects: Fuller Hall & Foulsham. (A)

## How temporary is shuttering? How permanent is formwork?

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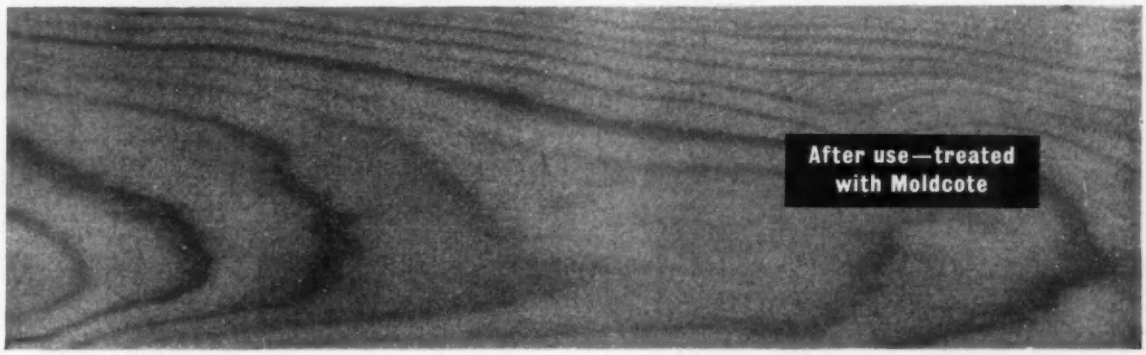


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SC73

Y. J. Lovell (Bucks.) Ltd., £37,822. New sec. sch. at Aylesbury for CC. (A) Robert Marriott Ltd., Rushden. New prim. sch. at Aylesbury for CC. (A) Webster & Cannon Ltd., Aylesbury.

CARDIFF.—Treatment works at Sluvag Panteg, Pontypool, for the Llandegfedd Water Scheme for the Corpn. Water E&M is J. W. Seddon. (A) M. J. Glesson (Contrs.) Ltd., Surrey, £277,000.

CREWE.—Erection of 64 dwellings at Middlewich estate for BC. (A) Direct labour, £102,878.

DIDSBURY.—Construction of a new building for the Cotton, Silk and Man-Made Fibres Research Assn. (The Shirley Institute). Architects: Harry S. Fairhurst & Son. (A) J. Gerrard & Son Ltd., Swinton, £425,370.

ENFIELD (Middx.). — Erection of a fluorescent tube factory for Thorn Electrical Industries Ltd. (A) Patterson & Dickinson Ltd., £1m.

HEMEL HEMPSTEAD. — Erection of Warners End Hall for BC. (A) F. W. Sears & Son Ltd., Hemel Hempstead.

HERTS.—Alterations (stage 2) of Watford Technical College for Herts. CC. Architects: Lanchester & Lodge, in collaboration with G. E. Fardell (County A). (A) Y. J. Lovell (Bucks.) Ltd., £21,700.

HIGH WYCOMBE.—Extension to printing house at Gomm-rd., High Wycombe, Bucks., for Merritt & Hatcher Ltd. (Bucks Free Press). Architects and quantity surveyors: Brocklehurst, Cooper & Williamson, High Wycombe. (A) Howard Farrow Ltd., £28,000.

LARNE (Co. Antrim).—Erection of 44 houses and ten garages and site works, etc., at Cloney, Glenarm, for UDC. (A) Samuel Hunter, Cross-st., Larne, £80,212.

LEEDS.—Warehouse, offices and showrooms at Swinnow-la., Bramley, for Heidelberg Printing Machines Ltd. (A) West & Sons (Leeds) Ltd.

LEICESTER.—Erection of PH and shop development at High-st. for Holloways Developments Ltd. Architects: Cecil Howitt & Ptnrs. (A) Holloway Brothers (London) Ltd.

LEIGH.—Alterations to public baths at Silk-st. for BC. (A) Direct labour.

LIVERPOOL.—Erection of St. Margaret's CoE high sch. at Aigburth for the Governors. (A) William Thornton & Sons Ltd., Liverpool.

(GD) LONDON (Air Ministry).—Contracts to the value of £4,000 or over for week ended June 2: *Building work:* Hendon, Middx.; J. M. Hill & Sons Ltd., Wembley, Middx. Church Lawford, Warwicks.; F. R. Hipperson & Son Ltd., Dagenham, Essex. Kinloss, Morayshire; W. & J. R. Watson Ltd., Corstorphine, Edinburgh 12. Gibraltar; Whatlings Ltd., Glasgow, C3. Marham, Norfolk; Walter Lawrence & Son Ltd., Swaffham, Norfolk. *Roadworks:* Bentwaters, Suffolk; Roadworks (1952) Ltd., Ipswich, Suffolk. *Artificers' work:* Sumburgh (Shetlands), etc.; Wm. Fraser & Ptnrs. Ltd., Lerwick, Shetland Isles. *High pressure hot water heating installations:* Benson, Oxon.; Arthur Scull & Son Ltd., Finsbury-sq., London, EC2. *Extensions to heating system:* Brackley, Northants.; Lorne Stewart (Heating) Ltd., Wembley, Middx. *Electrical installations (internal wiring):* Fylingdales Moor, Yorkshire; F. H. Wheeler & Co. Ltd., Newcastle-upon-Tyne. *Installation work (hoist blocks):* Mildenhall, Bury St. Edmunds, Suffolk; The Clayton Crane & Hoist Co. Ltd., Union-st., Liverpool 3.

(GD) LONDON (British Railways).—New London Midland contracts: Reconstruction of Tamworth station; Sir Alfred McAlpine & Sons Ltd., Wolverhampton. Platform surfacing at Chester General Station; The Trinidad Lake Asphalt Co., Liverpool. Renewal of fences on electrification routes in the Liverpool and Manchester districts; Escay Fencing Contractors Ltd., Enfield, Middx. 1961 fencing renewal programme in the Blackburn district; Supreme Fencing Ltd., Watford, Herts.

(GD) LONDON (British Railways).—Contracts placed by Southern Region: *Victoria Parnell House:* Electrical installation; Bective Electrical Co. Ltd., London, WC2. *Staplehurst:* Road works; Johnson Bros. (Aylesford) Ltd., Tonbridge, Kent. *Nine Elms:* Repairs to concrete walls and parapets, to Brunswick Yard; Clark & Fenn Ltd., London, SW4. *Okehampton:* Cleaning and painting of Meldon Viaduct; James Robb & Son Ltd., London, SE3. *London Area (east):* Period contract for building and civil engineering works; Aubrey Watson Ltd., Henley-on-Thames, Oxon. *London Area (west):* Period contract for building and civil engineering works; Aubrey Watson Ltd., Henley-on-Thames, Oxon. *Ashford Area 'A':* Period contract for building and civil engineering works; R. Corben & Son Ltd., Maidstone, Kent. *Ashford Area 'B':* Period contract for building and civil engineering works; R. Corben & Son Ltd., Maidstone, Kent. *Eastleigh Area 'A':* Period contract for building and civil engineering works; G. J. Furneaux Ltd., Christchurch, Hants. *Eastleigh Area 'B':* Period contract for building and civil engineering works; G. E. Prince & Son Ltd., Southampton, Hants. *Eastleigh Area 'C':* Period contract for building and civil engineering works; A. J. Dunning & Sons (Weyhill) Ltd., Andover, Hants. *Exeter district:* Resurfacing and surface dressing of roads, footpaths and platforms; W. & J. Glossop Ltd., Exeter. *Elephant & Castle:* Reconstruction of Knatchbull Road Bridge; The Cleveland Bridge & Engineering Co. Ltd., London, SW1. *Vauxhall Station:* Repairs to platform roofs; Durable Asphalte Co. Ltd., London, N1. *Ore:* Station renovations; W. R. Payne & Sons Ltd., London, EC3. *Tonbridge:* Station renovations; P. & M. Contractors Ltd., London, SW4. *Dover Train Ferry Dock:* Cleaning and Painting of Inner Dock gate; Wm. Latimer & Co. Ltd., Newcastle-upon-Tyne. *Sittingbourne Station:* Repairs and improvements; John E. Wiltshier & Co. Ltd., Canterbury, Kent. *Brighton District:* Resurfacing and surface dressing of roads, footpaths and platforms; A. C. W. Hobman & Co. Ltd., London, EC4. *Eastleigh District:* Resurfacing and surface dressing of roads, footpaths and platforms; Val de Travers Asphalte Ltd., London, EC4.

(GD) LONDON (MoW).—Contracts placed for week ended May 20: *Cornwall:* Erection of terminal repeater station, Bude; Peter Lind & Co. Ltd., Tufton-st., London, SW1. *Gloucestershire:* Alterations at Inland Revenue Office, Lister-bldgs., Gloucester; Wm. T. Nicholls Ltd., St. Paul's-rd., Gloucester. *London:* Erection of 3 passenger lifts at Bush-hse., Aldwych, WC2; Otis Elevator, Falmouth-rd., SE1. Occupational services at State-hse., High Holborn, WC1; E. J. Lacy & Co. Ltd., Steel-rd., NW10. Internal painting and decorations, and modernisation at Government Offices, Gt. George-st., SW1; Howe & White Ltd., 35 Manor-rd., Wallington, Surrey. Adaptations at Government Offices, Neville-hse., SW1; Walker Clinging & Co., 16 Perry-hill, Catford, SE6. Decoration work at Government Offices, Neville-hse., SW1; Spraycraft Co. Ltd., 101-102 Palace-rd., Bromley, Kent. Foundations and basements at Museum telephone exchange extension and radio tower, W1; Peter Lind & Co. Ltd., Tufton-st., Westminster, SW1. Erection of 2 lodges at Orme Square Gate, Kensington-gdns., SW7; Pugett Construction Co. Ltd., 5 Wrestlers-ct., Camomile-st., EC3. Erection of inquiry office at Post Office Savings Bank, Blythe-rd., W14; E. J. Lacy & Co. Ltd., Steel-rd., NW10.

(GD) LONDON (MoW).—Contracts placed for week ended May 27: *Cheshire:* Erection of sorting office, etc., at Lloyd-st., Altrincham; Ashton Smethurst (Builders) Ltd., Suffield-st., Middleton, Manchester. *Gloucestershire:* Fourteen houses for Prison Commission, Horfield, Bristol; M. J. Joyce Ltd., St. John's-rd., Bedminster, Bristol 3. *London:* Modernisation of heating services at Government Offices, Gt. George-st., SW1; W. C. Deane Ltd., Amyand Park-rd., Twickenham, Middx. Internal cleaning and decoration work at Old Public Offices, SW1; South London Decorators Ltd., 9-11 Streatham High-rd., SW16. *Yorkshire:* Re-covering flat roofs at Block 2, Government Offices, Lawnswood, Leeds; Northern Asphalt & Roofing Works Ltd., 153 Cardigan-rd., Leeds 6.

(GD) LONDON (War Dept.). — Contracts placed for week ended May 19: *Breconshire:* Building at Sennybridge; B. Jenkins & Sons, Brecon. *Gloucestershire:* Maintenance of grassed areas at Gloucester; Stokes of Cambridge Ltd., Cambridge. *Kent:* Miscellaneous at Maidstone; H. Goodsell & Son Ltd., Maidstone. *Merionethshire:* Painting and decorating at Merioneth; N. S. Long Ltd., Shrewsbury. *Oxfordshire:* Roadwork at Bicester; Constable Hart & Co. Ltd., Portsmouth. *Somerset:* Bujlding at Taunton; Frederick C. Spear Ltd., Taunton. *Surrey:* Sewage work at Brookwood; Bridgwater Bros. (Public Works Contrs.) Ltd., Epsom. Building at Lingfield; F. Kirkham (Croydon) Ltd., Croydon. *Warwickshire:* Miscellaneous at Kineton; Avon Building Co., Wellesbourne.

LUTON.—New licensed premises at Cannon-la. for Flowers Breweries Ltd. (A) Jarvis (Harpenden) Ltd., Vaughan-rd., Harpenden.

MANCHESTER. — New plant building, offices and laboratory at Blackley Works of ICI Ltd., dyestuffs division. (A) A. Monk & Co. Ltd., £85,000. Stage 2 of new Manchester University refectory block and student residence building in Burlington-st./Oxford-rd. Architects: J. Beaumont & Sons. (A) J. Gerrard & Sons Ltd., Swinton, Lancs., £605,000. Construction of a six-storey lecture hall and examination room block for Manchester University. Architects: Cruickshank & Seward. (A) J. Gerrard & Sons Ltd., £400,000. Building extension to De La Salle Teachers' Training College, Hopwood Hall, Middleton, for Trustees of the Brothers of the Christian Schools. Architects: Reynolds & Scott. (A) J. Gerrard & Sons Ltd., £430,000.

MANCHESTER.—New warehouse and offices at Dallimore-rd. for Kodak Ltd. (A) N. G. Mitchell Ltd., Manchester. Following for Regional Hospital Bd.: New out-patients' dept. at Rochdale Hospital. (A) E. Taylor & Co. Ltd., Littleborough, £115,047. Upgrading Clarendon-hse. at Devonshire Royal Hospital, Buxton. (A) Richard Green & Sons Ltd., Chapel-en-le-Frith, £33,927.

NEWCASTLE-ON-TYNE. — Erection of 152 garages for the City C. (A) R. Dodd, 10 Westmorland-ave., Willington Quay, Wallsend, £29,301.

NOTTINGHAM. — Erection of offices, showrooms and shop at Upper Parliament-st. for Richard Payne (Holdings) Ltd. (A) George Wood & Son Builders Ltd., Beeston, Notts. Erection of 155 residential flats on River Trent for the Norwich Union Insurance Society. Architects: Gooch & Ptnrs.


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(A) Sir Lindsay Parkinson & Co. Ltd., £600,000.

OXFORD.—Following for TC: Erection of 59 houses and 20 garages at Blackbird Leys estate. (A) C. Bryant & Son Ltd., Birmingham, £128,674. Erection of 20 maisonettes and 20 garages at Gas Bd. site., St. Ebbes. (A) John Laing & Son Ltd., London, £64,938.

PORTADOWN (Co. Armagh).—Erection of 76 dwellings at Brownstown-rd. and eight houses at Armagh-rd., with ancillary works. (A) Collen Bros. Ltd., Hanover-st., Portadown. £139,891 and £15,241, respectively. 22 flats in three blocks, with ancillary works, at Armagh-rd. (A) Collen Bros. Ltd., Hanover-st., Portadown, £39,287.

ST. ALBANS.—New supermarket at St. Peters-st. for Tesco Stores Ltd. (A) Opus Ltd., London.

ST. MARYLEBONE.—Construction of a r.c. frame for a seven-storey office building with basement, tank and lift motor rooms at Marylebone-rd., NW1. Architects: R. Seifert & Ptnrs. (main contr.: Myton Ltd.). (A) Modular Concrete Co. Ltd., Norbury, SW16, £28,610.

SHEFFIELD.—Nurses' training accommodation at The Pastures, Mickleover, for Regional Hospital Bd. (A) Vic Hallam (Contractors) Ltd., Langley Mill, Nottingham, £23,799.

SOUTHPORT.—Erection of shop and office block at Lord-st. for Shop & Store Developments Ltd., Yorks. Architects and surveyors: Samuel Jackson & Son. (A) J. Gerrard & Sons Ltd., Lancs., £40,000.

SURREY.—Following for CC: Rebuilding Farnham gram. sch. (A) Humphreys Ltd., £170,000. Extensions at Toldene CP sch., Coulsdon. (A) H. H. & F. Roll Ltd., Epsom, £19,485. Erection of branch library at Hersham. (A) E. Clarke & Sons (Addlestone) Ltd., Brighton-rd., Addlestone, £17,782. Extensions at Meadlands CP sch., Ham. (A) A. G. Smith, Guildford, £16,225. Alterations and extensions at Egham CS sch. (A) Bosley & Seward Ltd., £14,854. Extensions and adaptations at Horley CS sch. (A) Griggs & Son Ltd., 56 Victoria-st., London, SW1, £248,885. Extensions and alterations at Wayneflete CS sch., Esher. (A) Croudace Ltd., Caterham, £162,168. Erection of Oatlands CP sch., Weybridge. (A) E. & D. Simmons Ltd., £38,670. Additions at Merrist Wood Farm Institute. (A) Roger Miller Ltd., London, £30,025. Central library at Caterham Valley. (A) Herbert Kennard Ltd., 109 Gibbon-rd., London, SE15. Extensions at Park Barn CP sch., Guildford. (A) A. W. Middleton & Co. Ltd., Woking, £21,845. Adaptations at Wimbledon cty. girls' sch. (A) Humphreys Ltd., 161 Kingston-rd., New Malden, £29,914. Extensions at Purley cty. boys' sch. (A) Humphreys Ltd., £109,645.

TYNEMOUTH.—Erection of a PH at Queen Alexandra-rd. for Vaux & Associated Breweries Ltd., Sunderland. Architects: Page, Son & Hill, 75 King-st., South Shields. (A) Snowdon Brothers, Handel-st., Sunderland.

WATFORD.—New abattoir at Vicarage-rd. for D. Devis & Sons Ltd. (A) William Old Ltd., 433 Pinner-rd., North Harrow.

WEST HARTLEPOOL.—Provision of two additional classrooms and cloakroom accommodation at West Hartlepool boys' gram. sch. Architects: Bell & Spouse, 10 Scarborough-st., West Hartlepool. (A) Medway Buildings & Supplies Ltd.

WOLVERHAMPTON.—Construction of a warehouse at Fordhouses for H. F. Spencer & Co. Ltd. (A) T. G. Construction Co. Ltd., £87,000.

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# OFFICIAL ANNOUNCEMENTS

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**ATTENTION ADVERTISERS**

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

## CONTRACTS

### SHEFFIELD
REGIONAL HOSPITAL BOARD.

DONCASTER ROYAL INFIRMARY, DONCASTER, YORKSHIRE. DEVELOPMENT.

The Board proposes to invite TENDERS from selected contractors for work in Phases II and III of the above development.

Work in Phase II consists of the BUILDING OF A DIAGNOSTIC BLOCK at an estimated cost of approximately £750,000. It is anticipated that tender documents will be available during August, 1961, and work started on site at the end of 1961.

Work in Phase III consists of the BUILDING OF BOILER HOUSE, KITCHEN, DINING ROOMS, etc., at an estimated cost of approximately £500,000. It is anticipated that tender documents will be available at the end of 1961 and work started on site during the Spring of 1962.

This work is the first two phases of a Major Development Scheme estimated to cost over £4,000,000.

Building Contractors wishing to tender should submit their names to Mr. E. F. Wilson, A.R.I.B.A., Regional Architect, Sheffield Regional Hospital Board, Fulwood House, Old Fulwood-road, Sheffield, 10, WITHIN THREE WEEKS of the date of this advertisement.

From the names submitted a number will be selected to receive Bills of Quantities, etc., Contractors not selected will be notified at the same time.

### SHEFFIELD
CORPORATION WATERWORKS.

YORKSHIRE DERWENT SCHEME. HOUSING AND ANCILLARY WORKS AT ELVINGTON, NEAR YORK.

TENDERS are invited for the CONSTRUCTION OF FOUR NUMBER DETACHED DWELLING HOUSES WITH GARAGES, ACCESS ROADS AND SITE DRAINAGE.

The houses will be on the basis of a fixed priced contract, but payment for the other works will be on a measurement basis.

Forms of Tender, Specification and drawings may be obtained at any time after the 17th June, 1961, from the undersigned, returnable by the 7th JULY, 1961, and will be supplied on payment of a deposit of £2 2s. 0d., returnable on receipt of a bona fide Tender. Cheques to be made payable to Sheffield Corporation.

A. B. BALDWIN,
The General Manager and Engineer,
Sheffield Corporation Waterworks,
Waterworks Office,
Castle Market Building,
Sheffield, 1.

### MARKET HARBOROUGH
URBAN DISTRICT COUNCIL.

TENDERS FOR ERECTION OF SLAUGHTERHOUSE.

TENDERS are invited for the CONSTRUCTION OF A SLAUGHTERHOUSE (approximately 5,000 sq. ft.) to be erected at Springfield-street, Market Harborough. Bills of Quantities may be obtained from T. W. Hustler, M.I.Mun.E., Engineer and Surveyor, at the under-mentioned Offices on payment of £2 2s., which will be refunded on receipt of a bona fide tender which is not subsequently withdrawn. Plans may be inspected during usual Office hours.

Tenders should be sent to the undersigned in a plain, sealed envelope endorsed "Slaughterhouse" not later than MONDAY, 3rd JULY, 1961. The Council does not bind itself to accept the lowest or any tender.

E. T. MELLOR,
Clerk of the Council.

Council Offices,
"Brooklands,"
Northampton-road,
Market Harborough.

### TOTTENHAM
BOROUGH.

COMMUNITY CENTRE, ALLINGTON ESTATE.

Builders wishing to TENDER are requested to notify the Borough Engineer, Town Hall, Tottenham, N.15, by not later than 20th JUNE, 1961, together with £2 2s. deposit, refundable upon the submission of a bona fide tender. Plans may be seen at the Town Hall, N.15.

As soon as possible after the receipt of the deposit, copies of the Bills of Quantities, Form of Tender and all necessary documents will be forwarded to the applicants, stating the closing date for the receipt of tenders.

The Council do not bind themselves to accept the lowest or any tender.

M. LINDSAY TAYLOR,
Town Clerk.

### WELWYN GARDEN CITY
URBAN DISTRICT COUNCIL.

ERECTION OF PUBLIC CONVENIENCE, HALL GROVE, WELWYN GARDEN CITY.

TENDERS are invited for the CONSTRUCTION AND COMPLETION OF A PUBLIC CONVENIENCE, cubical content of building approximately 4,900 cu. ft., together with all necessary ancillary works, in Hall Grove, Welwyn Garden City.

Copies of the specification, drawing and form of tender may be obtained from, and details and general conditions of contract may be inspected at, the office of Mr. Charles W. Fox, F.R.I.B.A., National Provincial Bank Chambers, Welwyn Garden City.

Tenders are to be on a fixed price basis for both labour and materials.

Tenders are to be delivered to the undersigned in plain sealed envelopes endorsed "Public Convenience, Hall Grove," not later than noon on MONDAY, the 3rd JULY, 1961.

The Council do not bind themselves to accept the lowest or any Tender and the acceptance of any Tender will be subject to the completion of the necessary Contract and Bond.

L. J. SLOCOMBE,
Clerk of the Council.

Council Offices,
Welwyn Garden City.
9th June, 1961.

### CANTERBURY CITY.

NOTICE TO BUILDING CONTRACTORS.

The Council invite applications from Building Contractors for inclusion in lists of selected Contractors from whom tenders will be invited during the period ending JUNE, 1962, for contract works on Housing and General works.

The lists will be for contracts within the following values:

BUILDING WORKS:
List (A) between £500 and £5,000.
List (B) between £5,000 and £25,000.
List (C) between £25,000 and £50,000.

PAINTING AND DECORATING:
List (D) up to £500.
List (E) between £500 and £5,000.

Application for inclusion in any or all of these lists must be sent to the undersigned not later than 16th JUNE, 1961. Applications should be accompanied by particulars of works, with contract values, recently completed, together with the name and address of the Architect or Authority concerned.

Selected applicants will be required to sign a statement that, in tendering, restrictive practices in the building industry condemned by the Monopolies Commission will not be followed.

The Council reserves the right to place a Contractor in all or any of the lists or to refuse to include a Contractor in all or any of the lists.

The lists will be reviewed annually.

J. BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury.

### ESSEX
COUNTY COUNCIL.

BASILDON FRYERNS SECONDARY TECHNICAL SCHOOL. EXTENSIONS AND CONVERSIONS.

Contractors wishing to TENDER for the above should forward their names, from which a panel will be chosen and provided with tender documents.

The work consists of the ERECTION OF A NEW ART AND CRAFT BLOCK in traditional construction and CONVERSION OF TWO ART AND CRAFT ROOMS INTO LABORATORIES. The estimated cost of the contract is £18,000. The private architect for this contract is Denis Clarke Hall, St. James's, London, S.W.1.

Applications to reach the undersigned not later than 17th JUNE, 1961.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

### DORKING
URBAN DISTRICT COUNCIL.

COUNCIL DEPOT.

TENDERS are invited for the PROPOSED RE-MODELLING OF THE COUNCIL'S DEPOT at Station-road, Dorking. Bills of Quantities and copies of the Drawings may be examined at the Council Offices, Pippbrook, Dorking; alternatively at the offices of the Quantity Surveyor, Mr. A. W. West, F.R.I.C.S., Clarence House, Arthur-street, London Bridge, E.C.4, between the hours of 9.30 a.m. and 5 p.m.

Applications to submit a tender should be sent to Mr. H. V. Knight, Engineer and Surveyor, Dorking Urban District Council.

Tenders for the above project should be sent to Mr. F. G. Sutherland, Clerk of the Council, Council Offices, Pippbrook, Dorking, Surrey, not later than 30th JUNE, 1961, endorsed "Station-road Depot."

F. G. SUTHERLAND,
Clerk of the Council.

Council Offices,
Pippbrook,
Dorking,
Surrey.
29th May, 1961.

### BIRMINGHAM CITY.
TO BUILDING CONTRACTORS.

JUNIOR TRAINING CENTRES AT ERDINGTON, STECHFORD AND HARBORNE.

The Public Health Committee will shortly invite FIRM PRICE TENDERS for the ERECTION of the above three buildings. The superstructures of the three centres are identical, consisting in each case of a single storey building of traditional construction of about 6,000 sq. ft. superficial area. In each case the site works include pavings, landscaping, fencing and services.

It is proposed to give Contractors the opportunity of submitting separate tenders for any one or more individual Centres and also of submitting a tender for all three Centres as a single contract, the Committee reserving the right to award separate contracts to two or three firms or a combined contract to one firm at their discretion. Should all three centres be undertaken by one Contractor, phasing of the construction of the three buildings will be permitted, provided that all three are completed within 24 months of the starting date.

Contractors wishing to be considered for inclusion in the select list of tenderers should send their names to the City Architect, Baskerville House, Civic Centre, Birmingham, 1, not later than noon on THURSDAY, the 15th JUNE, 1961, stating for which Centres they wish to tender, and whether they would be prepared to undertake all three as a single Contract.

T. H. PARKINSON,
Town Clerk.

The Council House,
Birmingham, 1.

### EASTLEIGH
BOROUGH.

VELMORE HOUSING ESTATE, STAGE XI.
50 DWELLINGS.

The Corporation invite FIRM-PRICE TENDERS for the ERECTION OF THIRTEEN PAIRS OF THREE-BEDROOM HOUSES AND SIX BLOCKS OF FOUR TWO-BEDROOM HOUSES, together with outhouses, paths, fences, screen walls and various ancillary works.

Plans, Specifications, and Forms of Tender may be obtained from Edward J. Tapley, M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Eastleigh, on payment of a deposit of Two Guineas, which sum will be refunded on receipt of a bona fide Tender not subsequently withdrawn, together with the return of all documents supplied.

Tenders are to be sealed in the special envelopes provided and are to be delivered to the office of the undersigned at or before noon on FRIDAY, the 7th JULY, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

ROLAND J. RODDIS,
Town Clerk.

Town Hall,
Eastleigh,
Hants.
2nd June, 1961

### WATFORD
BOROUGH.

TENDERS are invited for the CONSTRUCTION OF A PAIR OF HOUSES in Cassiobury Park, Watford.

Applications for documents, must be made to Mr. F. C. Sage, Borough Engineer, Town Hall, Watford, not later than 2 p.m. on MONDAY, 19th JUNE, 1961.

No tender will be considered unless upon the official form which must be sent to the undersigned in the envelope provided for the purpose, by 2 p.m. on MONDAY, 3rd JULY, 1961.

GORDON H. HALL,
Town Clerk.

Town Hall,
Watford.
June, 1961.

### ARNOLD
URBAN DISTRICT COUNCIL.

14 ONE-BEDROOM FLATS.

TENDERS are invited for the ERECTION OF 14 ONE-BEDROOM FLATS OF TWO-STOREY CONSTRUCTION AND ANCILLARY WORKS in St. Alban's-road, Arnold.

Applications for Bills of Quantities and Form of Tender should be made to the Architects, Messrs. John Howitt & Son, Bentinck Buildings, Wheeler Gate, Nottingham, not later than TUESDAY the 13th JUNE, 1961, accompanied by a deposit of Two Guineas (refunded only after the receipt of a bona fide Tender not subsequently withdrawn). Cheques should be made payable to the Arnold U.D.C.

Documents and other particulars will be issued on or about the 30th June 1961.

Tenders, in plain sealed envelopes endorsed "Tender—14 Flats," must reach me not later than NOON on MONDAY the 24th JULY, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

A. H. JAMES,
Clerk.

Clerk's Office,
Arnot Hill House,
Arnold,
Nottinghamshire.

### KEYNSHAM
URBAN DISTRICT COUNCIL.

HOUSING: BROADLANDS ESTATE.

TENDERS are invited for the following works comprising the ERECTION OF 2 NO. THREE-STOREY BLOCKS EACH CONTAINING 3 FLATS AND 6 MAISONETTES, A TWO-STOREY CONNECTING BLOCK, 18 GARAGES AND PRAM STORES, CHILDREN'S PLAYGROUND and ancillary works at the Broadlands Estate, Keynsham.

Specification, Bills of Quantities, Form of Tender, Drawings and Conditions of Contract now available. Application should be made to the Architect, Council Offices, Keynsham, accompanied by a deposit of £2 2s. (by cheque payable to Keynsham U.D.C.) which will be refunded on receipt of a bona fide tender not subsequently withdrawn and the return of all documents.

Tenders, in plain sealed envelopes, endorsed "Housing," must reach the undersigned by not later than first post MONDAY, 3rd JULY, 1961.

The Council do not bind themselves to accept the lowest or any tender.

GEO. R. ASHTON,
Clerk of the Council.

Council Offices,
Keynsham,
Bristol.
9th June, 1961.

### HOVE
BOROUGH.

TENDERS are invited for the ERECTION OF FORTY-EIGHT TWO-BEDROOM FLATS IN EIGHT THREE-STOREY BLOCKS at Chichester Close.

Applications to Tender must be received by the Borough Engineer and Surveyor by 10 a.m. on FRIDAY, 30th JUNE, 1961. From such applications a selected list of Tenderers will be made to whom Bills of Quantities will be sent not later than 1st AUGUST, 1961. Drawings and Form of Contract may be seen at the Borough Engineer and Surveyor's Office. Applications to Tender must be accompanied by a deposit of £3 3s., which will be refunded to those not invited to Tender or on receipt of a bona fide tender as the case may be. The Council do not bind themselves to accept the lowest or any Tender.

Tenders, on forms supplied, addressed to the undersigned in a sealed envelope endorsed "Tender for Forty-Eight Flats, Chichester-close—Phase 2," must be delivered not later than 10 a.m. on 4th SEPTEMBER, 1961.

JOHN E. STEVENS,
Town Clerk.

Town Hall,
Hove, 3.

### KEIGHLEY
BOROUGH.

PARKS AND CEMETERIES COMMITTEE.
ERECTION OF FOUR ALUMINIUM GREENHOUSES, CLIFFE CASTLE, KEIGHLEY.

Manufacturers interested in TENDERING for the above, are asked to submit their names to the undersigned, when details will be supplied.

A deposit of £1 0s. 0d. will be required, which will be returned upon receipt of a bona fide Tender, not subsequently withdrawn. The lowest or any Tender not necessarily accepted.

Tenders to be received at the Town Clerk's Office not later than 10 a.m., FRIDAY, 7th JULY, 1961.

T. D. WILLIAMS, A.R.I.B.A.,
Borough Architect.

Borough Architect's Department,
College-street,
Keighley.

## POOLE
BOROUGH.

KEMP WELCH SECONDARY SCHOOLS: MAJOR RECONSTRUCTION AND EXTENSION, STAGE 1.

The Council invite TENDERS for the above works which comprise approximately 41,500 sq. ft. of new construction together with extensive alterations to existing buildings. Period of contract two years.

Details from the Borough Architect on 7th JULY, 1961. Five guineas deposit.

Tenders to me by first registered post on 9th AUGUST, 1961.

Contractors wishing to tender for the following P.C. items should notify the Borough Architect by 7th JULY, 1961. Documents will be issued later: ELECTRICAL HEATING, LABORATORY FITTINGS, STEEL CURTAIN WALLING, WIRE KIT LOCKERS, FLOOR COVERINGS, CLOAKROOM FITTINGS, BLINDS, GYMNASIUM EQUIPMENT.

J. G. HILLIER,
Town Clerk.

## SOUTHEND-ON-SEA
COUNTY BOROUGH.

TO BUILDING CONTRACTORS. PROPOSED EXTENSION TO STAFF ROOM AT WESTLEIGH JUNIOR SCHOOL.

TENDERS are invited for the PERFORMANCE OF THE WORKS IN EXTENSION TO STAFF ROOM of about 100 ft. super. ALTERATIONS TO TOILET ACCOMMODATION and works incidental thereto at Westleigh Junior School.

R.I.B.A. Conditions of Contract may be inspected, and copies of Form of Tender, Specification and Drawings obtained on and after FRIDAY, 16th JUNE, 1961, on application to the Borough Architect, 30 Alexandra-street, Southend-on-Sea.

Sealed tenders addressed to the undersigned and endorsed "Staff Room Extension, Westleigh School" are to be delivered to this office before 3 p.m. on FRIDAY, 7th JULY, 1961, and no tender received thereafter will be considered.

No tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any tender.

ARCHIBALD GLEN,
Town Clerk.

## GOSPORT
BOROUGH.

ERECTION OF:
(a) 10 ONE-BEDROOM BUNGALOWS, WYCH-LANE, AND
(b) 12 TWO-STOREY CROSSWALL HOUSES AND 2 CROSSWALL BUNGALOWS, GORSELANDS-WAY.

TENDERS are invited for the above work, which includes: (a) 10 ONE-BEDROOM BUNGALOWS, Wych-lane (2 blocks of 5 bungalows), of approximately 470 ft. super for each bungalow; and (b) 2 BLOCKS EACH OF 6 NO. 2-STOREY CROSSWALL TERRACE HOUSES AND 1 CROSSWALL BUNGALOW, total approximate area for both blocks being 9,564 ft. super.

Forms of Tender, Conditions of Contract, Specification, Drawings and Bills of Quantities may be obtained on application to the Borough Engineer, The Hall, Trinity Green, Gosport. A deposit of £2 2s. will be required which will be refunded on receipt of a bona fide tender and/or the return of all documents.

The completed Form of Tender is to be submitted in the envelope provided, and the priced Bills of Quantities are to be forwarded in the further envelope supplied. The two separate envelopes are to be delivered to the Town Clerk, Town Hall, Gosport, not later than MONDAY, the 10th JULY, 1961.

The Corporation do not bind themselves to accept the lowest or any tender.

EDWARD ADDENBROOKE,
Town Clerk.

Town Hall,
Gosport.
2nd June, 1961.

## GREAT YARMOUTH
COUNTY BOROUGH.

FIXED-PRICE TENDERS are invited for the following:

(a) ERECTION OF 14 FLATS AND 7 MAISONETTES IN FOUR-STOREY BLOCKS, Yarmouth-way, Great YARMOUTH.

(b) ALTERATION AND CONVERSION OF 56 TWO-STOREY AGED PERSON'S FLATS, Grenville-place, Great Yarmouth.

Conditions of contract and drawings may be inspected at and Forms of Tender and Bills of Quantities obtained from the Borough Engineer's Office on or after the 15th JUNE, upon payment of two guineas deposit returnable upon receipt of bona fide tenders not subsequently withdrawn.

Tenders, in the envelopes provided, must be received by me not later than 9 a.m. FRIDAY, 7th JULY, 1961.

The Council does not bind itself to accept any tender.

FARRA CONWAY,
Town Clerk.

Town Hall,
Great Yarmouth.

## WREXHAM
BOROUGH.

(a) 20 DWELLINGS AND 16 GARAGES, ASHFIELD-ROAD.
(b) 8 BUNGALOWS AND 8 GARAGES, CONNOR-CRESCENT AND KINGSLEY CIRCLE.

FIXED-PRICE TENDERS are invited for the above.

Applications for details, Tender Form and Bills of Quantities to Borough Engineer and Surveyor, Guildhall, Wrexham, enclosing deposit of £2 2s. for each contract, refundable on receipt of bona fide Tender.

Closing date for receipt of Tenders, 12 noon, MONDAY, 3rd JULY, 1961.

The Council does not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
May, 1961.

## WREXHAM
BOROUGH.

P.C. ITEMS.
100 DWELLINGS,
VARIOUS SITES.

FIXED-PRICE TENDERS are invited for the SUPPLY AND DELIVERY of the following:

(a) IRONMONGERY.
(b) SANITARY FITTINGS.
(c) FAIENCE FIREPLACE SURROUND.
(d) WOOD WINDOWS.

Tender forms and specification obtainable from Borough Engineer and Surveyor, Guildhall, Wrexham.

Closing date for receipt of Tenders, 12 noon, MONDAY, 3rd JULY, 1961.

The Council does not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
May, 1961.

## RICHMOND (SURREY)
BOROUGH.

NOTICE TO BUILDERS.

TENDERS are invited for the ERECTION OF APPROXIMATELY 1,500 YARDS OF DWARF BRICK WALLS TO THE FRONT BOUNDARIES OF HOUSES IN THE HAM AREA. Further particulars may be obtained from the Borough Engineer and Surveyor, King's-road, Richmond, Surrey.

Tenders in plain sealed envelopes marked "Tender for Boundary Walls" to be delivered to the undersigned not later than 5 p.m. on 3rd JULY, 1961.

The Council do not bind themselves to accept the lowest or any tender.

CLIFFORD HEYWORTH,
Town Clerk.

Town Hall,
Richmond,
Surrey.

## HEMEL HEMPSTEAD
BOROUGH.

WOOD-CRESCENT—WEST SIDE.

The Corporation invite TENDERS for the ERECTION OF 14 TWO-STOREY HOUSES, 21 GARAGES AND ACCESS ROAD AND PATHS, in Wood-crescent, Hemel Hempstead.

Tender documents will be available on the 15th June, 1961, and persons desiring to submit Tenders should apply at once to A. H. Turner, A.M.I.C.E., Borough Engineer and Surveyor, High-street, Hemel Hempstead, at whose offices the drawings and conditions of contract may be inspected during normal working hours.

Tenders, in the envelope provided, must be delivered to me not later than 12 NOON on THURSDAY, the 6th JULY, 1961.

The Corporation do not bind themselves to accept the lowest or any Tender and acceptance of a Tender will be subject to its approval by the Ministry of Housing and Local Government.

C. W. G. T. KIRK,
Town Clerk.

Town Hall,
High-street,
Hemel Hempstead, Herts.

## WANSTEAD AND WOODFORD
BOROUGH.

CONCRETE FENCING.

TENDERS are invited for the PROVISION AND ERECTION OF APPROXIMATELY 65 YARDS RUN OF PRECAST SEPIA COLOURED CONCRETE PANEL FENCE 5 ft. 6 in. high, and 26 YARDS RUN OF PRECAST SEPIA COLOURED CONCRETE PALISADE FENCE 4 ft. high to boundary of public footpath, Maldon Walk, Woodford.

Tender documents may be obtained from the Borough Engineer, Municipal Offices, E.18, upon payment of £2 deposit, returnable upon receipt of bona fide tender by 30th JUNE, 1961.

## BRISTOL
EDUCATION COMMITTEE.

TENDERS invited for ERECTION OF CHANGING ROOM, AND ADAPTATIONS TO PROVIDE CLOAKROOM AND CHEMISTRY LABORATORY, at Merrywood Grammar School for Boys.

Specification and drawings from Chief Education Officer, Council House, College Green, Bristol, 1.

## GRANTHAM
BOROUGH.

EXTERNAL PAINTING OF 587 DWELLINGS.

TENDERS are invited for the EXTERNAL PAINTING of the above houses in five groups:

Group A — 52 dwellings.
Group B — 52 dwellings
Group C — 120 dwellings.
Group D — 161 dwellings.
Group E — 202 dwellings.

Contractors may tender for all or any group of dwellings.

Details and form of Tender obtainable from the Borough Engineer and Surveyor. Closing date 10 a.m., THURSDAY, 22nd JUNE.

JOHN F. GUILE,
Town Clerk.

Guildhall,
Grantham.

## GLOUCESTERSHIRE
COUNTY COUNCIL.

BERRY HILL SECONDARY MODERN SCHOOL: EXTENSIONS.

Applications for Bills of Quantities, with deposit of £1 2s., returnable upon receipt of a bona fide FIXED PRICE TENDER, to reach County Architect, Shire Hall, Gloucester, by 19th JUNE, 1961.

The extensions consist of a two-storey classroom block, Assembly Hall and Gymnasium, having a total floor area of approximately 21,600 sq. ft.

The Council does not bind itself to accept the lowest or any tender.

GUY H. DAVIS,
Clerk of the County Council.

## ESSEX
COURT OF QUARTER SESSIONS AND COUNTY COUNCIL OF ESSEX.

POLICE HOUSES.

Contractors wishing to submit FIRM-PRICE TENDERS FOR THE ERECTION OF THE FOLLOWING POLICE HOUSES should forward their names, from which panels will be chosen and provided with Bills of Quantities which will be available early JULY, 1961.

Cumberland-avenue, Hornchurch.
FOUR PAIRS TYPE A HOUSE, estimated cost £21,000.

Main-road, Romford.
DETACHED HOUSE FOR SENIOR POLICE OFFICER, estimated cost £4,000.

Basildon New Town.
FOUR PAIRS TYPE A, estimated cost £21,000.

Long-road, Canvey Island.
ONE PAIR TYPE A, estimated cost £5,000.

Bradfield.
ONE SINGLE HOUSE WITH OFFICE, estimated cost £3,500.

Separate applications for each contract to reach the undersigned not later than 17th JUNE, 1961.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

## BRAINTREE AND BOCKING
URBAN DISTRICT COUNCIL.

SPORTS PAVILION:
KING GEORGE'S FIELD.

TENDERS are invited on a fixed price basis for the CONSTRUCTION OF A BRICK SPORTS PAVILION (approximate extremities 110 ft. x 44 ft. x 16 ft.), MACHINERY GARAGE CAR PARK, DEMOLITION OF OLD TIMBER PAVILION and ancillary works.

Drawings, Bills of Quantity and Form of Tender may be obtained from the Surveyor, Town Hall, Braintree, upon the payment of a deposit of £2 2s., which will be refunded upon the receipt of a bona fide tender together with all documents.

Tenders are to be returned separately in the envelope provided.

All documents must be delivered to the undersigned at the Town Hall, Braintree, before 12 noon on FRIDAY, 14th JULY, 1961.

The Council do not bind themselves to accept the lowest or any tender.

W. BALSON,
Clerk of the Council.

Town Hall,
Braintree,
Essex.

## DEMOLITION

TENDERS invited for demolition of a mansion near Horsham, Sussex. Particulars and tender forms from King & Chasemore, Chartered Surveyors, Horsham.

## CROYDON
COUNTY BOROUGH.

NOTICE TO BUILDERS.

Contractors who have the organisation and labour force to carry out the work expeditiously and who wish to TENDER FOR BUILDING 84 DWELLING UNITS IN TWO- AND FOUR-STOREY BLOCKS, together with TWO SHOPS WITH LIVING ACCOMMODATION OVER AND 41 GARAGES, forming the First Stage Redevelopment at Monks Hill Housing Estate should apply to the Borough Engineer, Town Hall, Croydon, for Bills of Quantities. Closing date for tenders 4th JULY, 1961.

E. TABERNER,
Town Clerk.

## CHESTER
COUNTY.

TENDERS required for the ERECTION OF:

EASTHAM CARLETT PARK CENTRAL COLLEGE OF FURTHER EDUCATION (FINAL INSTALMENT).
(Approximate Value £425,000.)

Drawings may be seen at this office.

Applications for Bills of Quantities, accompanied by a remittance of two guineas, made payable to the Cheshire County Council and crossed "Westminster Bank Limited" (which will be returned on receipt of a bona fide tender) should reach me immediately.

Tenders are due by 10 a.m. on WEDNESDAY, 12th JULY, 1961.

EDGAR TABERNER, A.R.I.B.A.,
County Architect.

County Hall,
Chester.

## SWINDON
BOROUGH.

MODERNISATION OF SWIMMING BATHS.

TENDERS are to be invited for the whole of the above scheme, involving modernisation of the SWIMMING BATHS HALLS, SLIPPER AND TURKISH BATHS, CHANGING AND TOILET ACCOMMODATION and ancillary services, at an estimated cost of £60,000.

Contractors wishing to be considered for inclusion in the list of tenderers should apply to the Borough Architect, Civic Offices, Swindon, not later than 17th JUNE, 1961.

D. MURRAY JOHN,
Town Clerk.

Civic Offices,
Swindon,
Wilts.

## EALING
BOROUGH.

EXTERNAL PAINTING WORKS AT VARIOUS SCHOOLS AND EDUCATIONAL ESTABLISHMENTS.

Details obtainable from the Borough Engineer, Town Hall, Ealing, W.5, on payment of £2, returnable on receipt of a bona fide Tender.

Closing date of Tender 30th JUNE, 1961.

E. J. COPE-BROWN,
Town Clerk.

## LIVERPOOL CITY

WORKS AT HUNTINGDON, NEAR CHESTER.
HOUSING.

TENDERS invited for building SEVEN "TRADITIONAL" DETACHED HOUSES AND SEVEN LOCK-UP GARAGES.

Documents from Water Engineer, 55 Dale-street, Liverpool.

Tenders returnable by 10th JULY, 1961.

THOMAS ALKER,
Town Clerk.

# PUBLIC APPOINTMENTS

## WEDNESFIELD
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT. Salary within A.P.T. Grade III (£960-£1,140 per annum).

Applicants must have a good experience in Architectural design and construction, and preference will be given to those who have passed the intermediate examination of the Royal Institute of British Architects.

Applications must state age, qualifications, previous appointments and details of experience, together with the names and addresses of two referees.

Th appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, the passing of a medical examination, and will be terminated by one month's notice on either side.

Housing accommodation will be made available, if required, and reasonable removal expenses will be paid.

The District is developing rapidly and offers exceptional experience.

Applications for the appointment must reach the undersigned by not later than FRIDAY, 16th JUNE, 1961.

J. HENWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

## ACTON
BOROUGH.

JUNIOR BUILDING INSPECTOR.

Applications are invited for this appointment from persons of good education with a knowledge of building construction and preferably experience in building inspection.

Salary in A.P.T. I (£645-£815 p.a.) plus London Weighting up to £40 p.a., commencing according to experience, etc. Five-day working week.

Write, stating age, qualifications, experience and names of two referees, to Borough Engineer, Town Hall, Acton, W.3, by 19th JUNE, 1961.

*For top quality and 10% saving*

**MAC FISHERIES** *specify Merthyrware*

*Mac Fisheries Ltd. have found that Merthyrware Tiles provide the right kind of flooring to stand up to heavy traffic. The shale from which Merthyrware Tiles are made is the finest in the country and because our factory is situated on the site of this raw material, we can produce a tile of superior quality at a more economical price.*

# MERTHYRWARE

## *Modern Ceramic Floor Tiles*

These hardwearing, real ceramic tiles are unbeatable for their long-lasting qualities and consistent size and colour. Merthyrware Tiles are produced in one of the most modern, best-equipped factories in the country. They are universally accepted, and are particularly suitable for use in shops, offices, factories, schools and municipal buildings everywhere.

**SPECIFY MERTHYRWARE FOR:—**
**SUPERIOR STRENGTH—up to 10 tons per sq. inch.**
**CLEAR, FAULTLESS COLOURS—Red and Mingles.**
**STANDARD SHAPE AND CONSISTENT SIZE.**
**RESISTANCE to heat, moisture absorption, acids, grease and fire.**
**REAL ECONOMY—Merthyrware cost less than any comparable tiles.**
**Outstanding for accurate size and consistent colour.**
**CERAMIC CILL TILES—Fit ALL cills.**

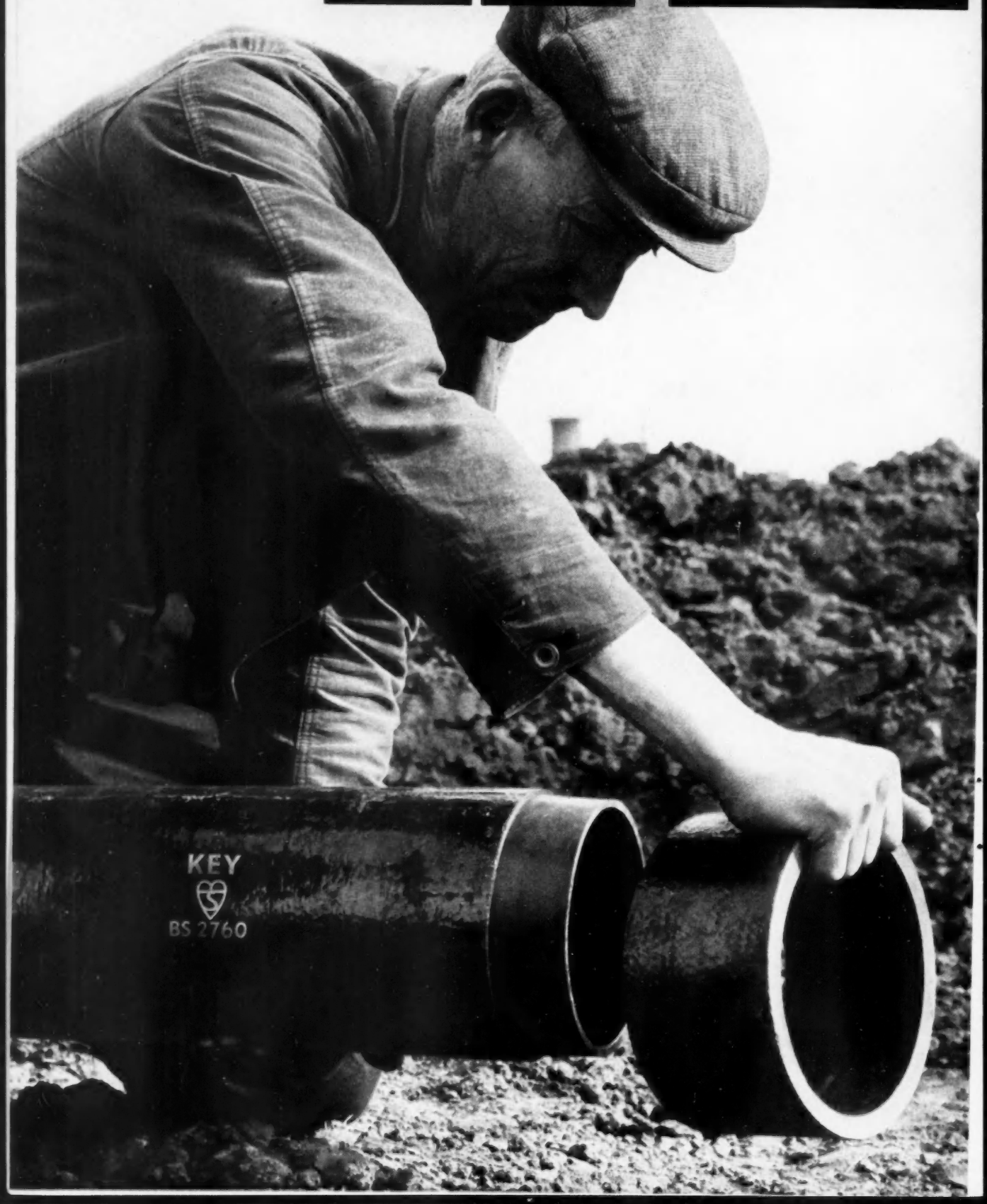
**MERTHYRWARE TILES** *never wear out!*

*SWIFT DELIVERY—24 HOUR SERVICE—WRITE OR 'PHONE*

**MERTHYRWARE LTD. CARKER'S LANE, LONDON, N.W.5. TELEPHONE: GULLIVER 8761 (10 LINES)**

FACTORY: HEOLGERRIG, MERTHYR TYDFIL, GLAMORGAN. TELEPHONE: MERTHYR TYDFIL 2793

KE



# DEPENDABILITY

Every length of Key Pitch Fibre Drainpipe has *two* distinguishing marks—the name Key and the British Standards Institute's 'Kite' symbol. Key pipes carry this symbol because while all pitch fibre drainpipes conform to BS 2760/56 standards, Key pipes are open to inspection at any stage of manufacture by the Institute's own testers. The 'Kite' mark, in fact, symbolises dependability above the average—a very good reason for insisting on Key whenever you use pitch fibre drainpipes.

## other KEY advantages are

**ALL-WEATHER LAYING** Delays and difficulties attending the use of concrete in bad weather are eliminated.

**BORE FINISH** Smooth, continuous inner bore improves hydraulic flow and permits flatter gradients.

**ECONOMY** Use of a single material above and below ground, with re-usable offcuts, eliminates waste. Quicker installation and dry driven joints bring all-round economies: stack draining costs, in particular, can be halved. Breakages on site are practically eliminated.

**FLEXIBILITY** Resilient Key pipes withstand all normal ground movement and settlement. Telescopic joints accommodate expansion in buildings and exceptional site conditions.

**ADVICE** Free information and advice from a professionally qualified technical service, with practical demonstration on request.

# KEY

# Pitch Fibre Drainpipes

FIRST NAME & LAST WORD IN MODERN DRAINAGE

Reed PAPER GROUP

*Please write for full details to:* THE KEY ENGINEERING COMPANY LTD. LARKFIELD, NEAR MAIDSTONE, KENT TEL: MAIDSTONE 7-7777 EXT. 728

TGA KD48

# Medway Constructional Systems

Medway modular systems save both time and money. This is ensured by first class architectural detail and sound timber engineering, combined with really up-to-date production techniques. Very rapid site schedules can be offered with 'all-dry' methods. Design costs can also be cut at the 'working drawing' stage of a project.
Medway have systems suitable for almost any one or two-storey building—permanent or demountable. For rapid building, economic cost and, of course, a most attractive building use a *Medway System*.

MEDWAY BUILDINGS & SUPPLIES LTD
Phoenix Wharf, Rochester, Kent. Tel: Strood 7521

## WARRINGTON
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the undermentioned permanent appointments :—

(1) CHIEF ENGINEERING ASSISTANT. Within N.J.C. Scale "A" (£1,320 rising to £1,565 per annum).

(2) ENGINEERING ASSISTANT. Within A.P.T. Grades III-IV (£960 rising to £1,310 per annum).

(3) ENGINEERING ASSISTANT. Within A.P.T. Grade I (£645 rising to £815 per annum).

(4) TWO PRINCIPAL ARCHITECTURAL ASSISTANTS. Within A.P.T. Grade V (£1,310 rising to £1,480 per annum).

(5) ARCHITECTURAL ASSISTANT. Within A.P.T. Grade II (£815 rising to £960 per annum).

(6) ARCHITECTURAL ASSISTANT. Within A.P.T. Grade I (£645 rising to £815 per annum).

(7) PLANNING ASSISTANT. Within A.P.T. Grades III-IV (£960 rising to £1,310 per annum).

All applicants for the above mentioned appointments must be qualified by examination in accordance with the Scheme of Conditions of Service of the National Joint Council for Local Authorities, Administrative, Professional, Technical and Clerical Services.

Housing accommodation will be made available, if required, in respect of appointments (1), (2), (4) and (7).

The appointments, which are terminable by one month's notice on either side are subject to the conditions of service of the National Joint Council and the provisions of the Local Government Officers' Superannuation Act, 1937, the successful candidates (if new entrants to the Council's service) being required to pass a medical examination.

The canvassing of members of the Council, either directly or indirectly will be a disqualification, and applicants must state whether to their knowledge they are related to any member of the Council, or any co-opted member of a Committee, or any officer of the Council. Failure to do so will disqualify or may lead to dismissal without notice.

No printed form of application is being used. Applications stating age, details of training and experience, qualifications, present and previous appointments (in chronological order) together with copies of three recent testimonials, or the names of three referees, should be forwarded to the undersigned so as to be received not later than 12 o'clock Noon on MONDAY, the 19th DAY OF JUNE, 1961.

J. Y. HUGHES, M.I.C.E.,
Borough Engineer and Surveyor.

Town Hall,
Warrington.
26th May, 1961.

## MERIONETH
EDUCATION COMMITTEE.

COUNTY ARCHITECT'S DEPARTMENT.
CLERK OF WORKS.

Applications are invited for the post of CLERK OF WORKS to supervise the Education Committee's Building Schemes.

Salary Grade A.P.T. II (£815-£960 per annum). The commencing salary to be determined according to the experience and qualifications of the successful candidate.

Applicants must have experience as a Clerk of Works and possess (a) practical knowledge of all branches of the building trade and (b) experience in the supervision and erection of buildings, setting out, taking levels, checking quantities and making reports.

Forms of application are obtainable from the Director of Education, County Offices, Penarlag, Dolgellau, to whom the completed form should be returned before MONDAY, 26th JUNE, 1961.

## LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
SENIOR ASSISTANT ARCHITECTS
(N.J.C. Scale "B," £1,505-£1,670).

Applications are invited from experienced ARCHITECTS for posts on the permanent staff. The County Council has a large and extremely varied building programme, and posts will be filled by men of initiative, imagination and a flair for sensitive design.

Applicants are expected to be Registered Architects, as well as Associates of the Royal Institute of British Architects and, if appointed, will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and conditions of appointment are obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by the 23rd JUNE, 1961.

## WORCESTERSHIRE
COUNTY COUNCIL.

ARCHITECTURAL ASSISTANT required, Grade A.P.T. II (£815-£960), in the Section concerned with major School projects. The County Council owns some housing accommodation for which a successful candidate may apply.

Application forms and further particulars can be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14 Castle-street, Worcester, not later than 22nd JUNE, 1961. (N.142)

## YORK "A" AND TADCASTER
HOSPITAL MANAGEMENT COMMITTEE.

Applications are invited for the post of WORKS ASSISTANT for duties under the general supervision of the Building Supervisor.

Applicants should have completed an appropriate trade apprenticeship preferably as Painter, Carpenter, Joiner or Bricklayer and should be in possession of or in the last year of studies for the City and Guilds Final examination or the Ordinary National Certificate in Building or comparable qualifications.

The person appointed will be required to assist in the preparation of drawings, specifications and estimates for repairs and alterations to Hospital properties, painting and paint-washing programmes including supervision of works in progress and for the issuing of Works Orders, checking accounts and time sheets.

This post, which is of special interest, provides good opportunities for advancement in the Health Service and carries a salary at the rate of £465 at age 21; £490 at age 22; £515 at age 23; £540 at age 24; £565 at age 25; £590 at age 26 or over, rising to a maximum of £690 per annum.

The hours of duty are 38 a week and the post is superannuable.

Applications stating age, qualifications and previous experience together with the names of two referees to Group Secretary, Bootham Park, York.

## NEWCASTLE UPON TYNE
CITY AND COUNTY.

CITY ARCHITECT'S DEPARTMENT.

A unique opportunity exists in this office for competent ARCHITECTS to take part in one of the most ambitious programmes of varied building works in the country, and vacancies in the establishment occur for ARCHITECTS who will be considered on their ability in design, experience, and architectural outlook, in the following grades:

J.N.C. "C": £1,560-£1,825 per annum.
J.N.C. "B": £1,410-£1,670 per annum.
A.P.T. V: £1,310-£1,480 per annum.
A.P.T. IV: £1,140-£1,300 per annum.
A.P.T. III: £960-£1,140 per annum.
A.P.T. II: £815-£960 per annum.
A.P.T. I: £645-£815 per annum.

The Department is engaged upon a wide and varied programme of major redevelopment schemes embracing multi-storey flats, shopping precincts and associated community buildings, one of which schemes is the Scotswood-road Redevelopment Area to rehouse approximately 5,000 people, and which is expected to cost in the region of £12 million.

Planning work has now commenced on the new Education Precinct in the central area, comprising Colleges of Further Education, Art and Industrial Design, Drama, Commerce, and Multi-storey Hostels, which will be the largest development of its kind in the country.

Further projects include: Airport Terminal; Abattoir and Fatstock Market; Vegetable Market; Central Library; and Divisional Police Headquarters, etc., and a varied programme of normal housing development of a stimulating character.

The department is also engaged on the New Town Hall, where an exceptional opportunity is presented for working on a building of some £4 million in value, and being executed in materials of the highest quality.

Architects wishing to take part in one of Britain's most stimulating programmes should apply immediately for further details and forms of application to George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, indicating the grade for which they wish to apply.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.

## LANCASHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

ASSISTANT ARCHITECTS, A.P.T. IV (£1,140-£1,310) and A.P.T. V (£1,310-£1,480). (Starting salary according to experience.)

Applications are invited from qualified Architects of initiative, keen on design and modern constructional methods, to work on a large and varied programme.

If appointed, applicants will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by the 23rd JUNE, 1961.

## OXFORD CITY.

CITY ARCHITECT AND PLANNING OFFICER.

Applications invited for this appointment. Salary within scale £2,695-£3,070 a year. Car allowance.

Further particulars and application forms (to be returned by 29th JUNE, 1961) can be obtained from me.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

# APPOINTMENT OF ARCHITECTS

## LEEDS REGIONAL HOSPITAL BOARD

*(Regional Architect—P. B. Nash, A.R.I.B.A.)*

In order to deal with a large capital programme spread over the next 20 years the Regional Architect's Department has been expanded to carry out a proportion of this work. The work offers scope to architects with initiative and particularly those with an appreciation of contemporary architecture. The work to be carried out includes complete new hospitals as well as many associated buildings of wide variety.

*Applications are invited for the under-mentioned appointments:—*

**(a) Senior Assistant Architects—**
**Salary—£1,300 x 60(5)—£1,600**

Candidates must possess the ability to handle contracts valued at £100,000 or more and experience of contemporary design is essential.

**(b) Assistant Architects—**
**Salary—£905 x 35(1) x 45(6) x 50(2)—£1,310**

Candidates for the above appointments must be registered architects and associate members of the R.I.B.A.

*(Qualified architects awaiting registration may be appointed as Architectural Assistant at a salary of £865 per annum.)*

**(c) Architectural Assistants—**
**Salary—£625 x 30(8) x 35(1)—£900**

Candidates must have passed the Intermediate Examination of the R.I.B.A.

*Applications stating age, qualifications, previous experience and the names of two referees to the*

**Secretary, Park Parade, Harrogate**

by 23rd June, 1961.

## LEICESTER CITY.

CITY SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of BUILDING SURVEYORS in my Maintenance Section :—

(a) One, Grade A.P.T. IV-V (£1,140 to £1,480 p.a.).

(b) One, Grade A.P.T. III (£960 to £1,140 p.a.).

(c) One, Grade A.P.T. II (£815 to £960 p.a.).

(d) One, Learner, General Division (£220 to £630 p.a.).

Candidates for (a), (b) and (c) should be suitably qualified by Examination and have a good knowledge of and be experienced in the maintenance of public buildings, alterations and additions to properties, preparation of plans, specifications, estimates, schedules, etc. Some knowledge of Works Study will be an advantage. The Learner will receive training in Building Surveying.

The appointments are subject to the Local Government Superannuation Acts and the passing of a medical examination.

Applications, stating age, qualifications and experience, and the names of two referees should be forwarded to the undersigned by 19th JUNE, 1961.

Housing accommodation may be made available if required.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

## LONDON
COUNTY COUNCIL.

BUILDING SURVEYOR, Inter.R.I.C.S. (Building Section) or equivalent, required for preparation of estimates and specifications for works of maintenance and minor improvements at residential establishments. Up to £1,250 according to qualifications and experience. Pensionable position. Staff restaurant on premises. One Saturday only worked in five.

Application form from Chief Engineer (GS/B/1525/6), L.C.C., County Hall, S.E.1.

## ILFORD
BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT on A.P.T. Grade I (£645-£815 plus London Weighting).

The commencing salary will be fixed within the scale, according to qualifications and experience.

Application forms and further particulars may be obtained from the Borough Engineer, Town Hall, Ilford, to whom they should be returned by 26th JUNE, 1961.

The Council is prepared in special circumstances to consider, if necessary, the provision of housing accommodation.

## MIDDLESEX
COUNTY COUNCIL.

EDUCATION COMMITTEE.
TOTTENHAM TECHNICAL COLLEGE
High-road, Tottenham, N.15.

Principal: E. T. S. Hoffman, M.A., B.Com., Barrister-at-Law.

Required from 1st September, 1961: FIVE ASSISTANT LECTURERS, Grade "B," to assist in courses for Handicraft Teachers in Wood and Metal Work and Metal Work courses for Shop Fitting and other Apprentices and also to be responsible for teaching Woodwork and Metalwork in local Secondary Modern Schools. Applicants should possess the Handicraft Teacher's Certificate and appropriate City and Guilds Certificates; previous experience in teaching and industry is also desirable.

Salary scale (at present) £738-£1,201 per annum. Additions may be given for industrial experience (up to £330 above the minimum), training and study (up to £120 above the maximum) and for qualifications (up to £165 above the maximum).

Application forms (s.a.e.) from the Principal of the College to be returned WITHIN 14 DAYS.

C. E. GURR, M.Sc., Ph.D.,
Chief Education Officer.

## LYTHAM ST. ANNES
BOROUGH.

APPOINTMENT OF ARCHITECTS.

Applications are invited for the following positions in the Department of the Borough Engineer and Surveyor :—

(a) CHIEF ASSISTANT ARCHITECT.

Salary in accordance with Grade A.P.T. III (£960-£1,140). Candidates should have passed the final examination of the R.I.B.A., and should have had experience in the design and construction of general municipal building work, including houses and flats.

(b) ARCHITECTURAL ASSISTANT.

Salary in accordance with Grade A.P.T. II (£815-£960). Candidates should have passed the Intermediate examination of the R.I.B.A., and should have had good experience in architectural design and building work under construction.

The appointments will be subject to the provision of the Local Government Superannuation Acts, and to the passing of a medical examination.

The Council may be prepared to assist successful applicants with housing accommodation.

Applications, stating which appointment is applied for, and giving details of age, education, qualifications and experience, together with the names of two referees, should be forwarded to the undersigned not later than 23rd JUNE, 1961.

R. A. CORK,
Town Clerk.

Town Hall,
Lytham St. Annes.

# SURREY COUNTY COUNCIL

Applications are invited for the appointment of two

## ASSISTANT SUPERINTENDENT CLERKS OF WORKS

**A.P.T. Grade III**

(£960 to £1,140 per annum, plus London Allowance of £45 per annum.)

Candidates must have been properly trained as craftsmen, and have had experience as a Clerk of Works, and in the control of staff.

Application forms from **County Architect, County Hall, Kingston-upon-Thames, to be returned to him by 24th June, 1961.**

## BRITISH STANDARDS INSTITUTION.

APPOINTMENT OF TECHNICAL OFFICER.

The British Standards Institution requires a TECHNICAL OFFICER for an appointment to the staff of the Building Section of the Institution, primarily concerned with building materials and components.

The staff is responsible for the work of the Institution in the preparation of British Standards in co-operation with the various sections of industry and is required to plan and progress the work. They act as secretaries to technical committees.

Applicants should have a university degree or equivalent technical qualifications.

There are three grades of appointment and salaries in the top grade range up to £2,000 plus; applications, however, are invited for the grade which has at present a maximum salary of £1,350, the starting salary being dependent upon individual qualifications and experience. The post is pensionable.

Apply to the Establishment Officer, B.S.I., 2 Park-street, London, W.1.

## AIR MINISTRY

IN LONDON REQUIRE ENGINEERING DESIGNER DRAUGHTSMEN.

Salary (inner London scale) Grade II, £1,048-£1,215; Grade III, £658-£1,048 (£866 at age 25)—starting salary depends on age, qualifications and experience.

CIVIL ENGINEERING DESIGNER DRAUGHTSMEN for work on one or more of (a) foul drainage and sewage disposal; (b) water supply and distributions; (c) roads, pavements, earthworks and stormwater drainage. (Grades II and III.)

Candidates should have served a recognised apprenticeship or have had equivalent waining and also adequate practical experience. Possession of recognised technical qualification an advantage—financial assistance and time off may be allowed for recognised courses of study for technical qualifications. 5-day week with 18 days' paid leave p.a. initially. Promotion and pension prospects. Some overseas tours with special allowances in addition to salary.

Applicants, who must be natural born British subjects, should write (quoting Kings Cross O/N 807) to Air Ministry, W.G.d., Lacon House, Theobalds-road, London, W.C.1, or to any Employment Exchange, giving age, details of training, qualifications and full particulars of former posts held. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only candidates selected for interview will be notified.

## MINISTRY OF WORKS.

SURVEYORS (Basic Grade) required by Ministry of Works in London, Glasgow and, possibly Reading. National salary scale £936 (at age 25) to £1,430 per annum. Commencing salary up to £1,258 p.a. at age 34 according to age and experience. Salary subject to an addition of up to £60 p.a. for London posts and to a deduction of up to £40 p.a. for Reading. Five-day week, 22 days' annual leave. Prospects of promotion and opportunities for permanent and pensionable posts.

Applicants should be Registered Architects by examination or Corporate Members of R.I.C.S. (Building Section).

Apply stating age, qualifications and full details of experience to the Chief Maintenance Surveyor (Recruitment), Ministry of Works (X), Stanley House, Marsham-street, London, S.W.1.

## AIR MINISTRY

require CLERKS OF WORKS (BUILDING), Grade III, at R.A.F. and Ministry of Aviation stations throughout the United Kingdom for supervision of construction and maintenance work.

Salary, which is dependent upon age, qualifications and experience, ranges from £776 (age 25) to £961 maximum in Grade III. There are pension prospects and also opportunities of advancement to numerous posts in the higher grades, viz.:

Technical Grade II: £961-£1,098. 250 posts.

Technical Grade I: £1,098-£1,348. 146 posts.

Technical Grade B: £1,348-£1,552. 24 posts.

Vacancies occurring in the higher grades are, as a rule, filled by promotion of existing staff.

Overseas tours for which special allowances ranging, at present, up to £1,800 p.a. are payable in addition to a higher salary. Financial assistance and time off allowed for recognised courses of study leading to higher qualifications. 5-day week with 18 days' paid leave a year initially.

QUALIFICATIONS: Applicants, who must be natural born British subjects up to the age 45, should hold O.N.C. (Building) *or* Final C. & G. Certificate in a craft, *or* Associate Membership of Institute of Clerks of Works, or equivalent qualification. They must also have served apprenticeship as craftsmen with 3 year's experience as foreman of trade and have experience as general foreman or clerk of works on big contracts. 3 years full-time or 5 years' part-time training in a building school or 3 years' experience in a building office in estimating, costing and management will be accepted in lieu of apprenticeship.

Forms from Manager (P.E.U.), Ministry of Labour, Professional & Executive Register, Atlantic House, Farringdon-street, London, E.C.4. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only applicants selected for interview will be advised.

## LANCASHIRE COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANTS (within the salary range £645-£960 according to experience and ability).

Applications are invited from ARCHITECTURAL ASSISTANTS for appointments to the permanent staff of the County Architect's Department, which is engaged on a large and varied programme of major projects.

Applicants should have attained at least Intermediate R.I.B.A. standard and, within this stage of qualification, have a reasonably varied experience.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, should be returned by 23rd JUNE, 1961.

## CHELSEA BOROUGH.

BUILDING SURVEYOR

(A.P.T. III-IV, £960 to £1,310 plus £45 p.a. London "Weighting").

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department. Applicants must have A.R.I.C.S. (Building) or any other appropriate qualifications, and have had good general experience. Council operates 5-day week. Forms of application from Borough Engineer and Surveyor, Town Hall, King's-road, S.W.3, to be returned not later than 23rd JUNE.

## ENFIELD BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

(Population 110,000—Area 12,400 acres.)

Applications are invited for the following established positions within the Grades shown:—

(a) ASSISTANT ARCHITECT, A.P.T. IV (£1,140-£1,310);

(b) ARCHITECTURAL ASSISTANTS, A.P.T. III (£960-£1,140);

(c) TECHNICAL ASSISTANT, A.P.T. III (£960-£1,140).

The commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

The appropriate London Weighting allowance will be paid in addition to the above salaries.

Candidates for post (a) must be Associates of the Royal Institute of British Architects; for post (b) applicants must have passed the Intermediate Examination of the R.I.B.A.; for post (c) applicants must have a sound knowledge of all aspects of the building trade and be able to carry out inspections, prepare reports, specifications and estimates for works in connection with repair and maintenance of Schools, and should possess the Higher National Certificate in building.

The Council are prepared to consider the provision of housing accommodation if required, or 100 per cent. advances to successful applicants for house purchase within the Borough.

Five-day week.

Details of appointments and application forms obtainable from Mr. H. D. Peake, M.Sc.(Eng.), Borough Engineer and Surveyor, 7 Little Park-gardens, Enfield, Middx.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Civic Centre,
Enfield.

## COVENTRY CITY.

DEPARTMENT OF ARCHITECTURE AND PLANNING.

(QUANTITY SURVEYING DIVISION.)

QUANTITY SURVEYORS, appropriate qualified, A.P.T. IV-V (£1,140-£1,480).

Appointments may be made, according to qualification/experience within combined Grade. Permanent and pensionable subject to satisfactory medical history.

Housing accommodation in approved circumstances *or* 95 per cent advance for house purchase. Removal expenses loan.

Good general experience desirable and ability to take-off for large Contracts required.

Details and application form from City Architect and Planning Officer, Council House, Coventry, returnable by 19th JUNE, 1961.

## LIVERPOOL REGIONAL HOSPITAL BOARD

require

ARCHITECTS

SENIOR ASSISTANT ARCHITECTS, £1,300-£1,600

ASSISTANT ARCHITECTS, £905-£1,310

ARCHITECTURAL ASSISTANTS, £625-£900

ARCHITECTURAL DRAUGHTSMEN, £475-£685

and

SURVEYORS

ASSISTANT BUILDING SURVEYORS, £905-£1,310.

In the Department of the Regional Architect, T. Noel Mitchell, B.Arch., F.R.I.B.A. Interesting new building is projected including new Hospitals and the complete replanning of a large number of older Hospitals covering a wide variety of building types.

All posts are superannuable and mileage allowances will be paid to approved car users.

Applications to reach me by 16th JUNE, 1961, stating post applied for, age, education, qualifications, present salary, experience, present and previous posts and names and addresses of three referees (two technical).

VINCENT COLLINGE,
Secretary to the Board.

55 Castle-street,
Liverpool, 2.

## SHEFFIELD CITY.

Applications are invited for the following post on the staff of the Estates Surveyor, Mr. W. H. Rothwell, B.Sc., F.R.I.C.S.:

MEASURING SURVEYOR (A.P.T. II, £815 to £960).

Qualification H.N.C. or equivalent.

Applicants should be experienced in the preparation of measured schedules of builders' work in all trades and in the supervision of contracts and have practical experience in the building trade. A knowledge of builders' estimating or quantities is essential.

The post is superannuable, subject to N.J.C. conditions of service and to medical examination.

Applications to the previous advertisement are in hand and re-application is unnecessary.

Applications stating name, address, age, qualifications, experience, previous and present positions with dates and salaries and the names and addresses of two referees, should reach the undersigned not later than 22nd JUNE, 1961.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

## SHEFFIELD CITY.

CITY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ASSISTANT SURVEYOR, GRADES A.P.T. III-IV (£960-£1,310).

Applications are invited from suitably qualified persons for this appointment on the permanent staff of the City Architect, Mr. J. L. Womersley.

The post is in the Group of the Housing Section responsible for the survey and levelling of sites for all types of Development carried out by the Department and the design and construction of road and sewer works.

COMMENCING SALARY WITHIN THE ABOVE GRADES COMMENSURATE WITH THE SUCCESSFUL APPLICANT'S QUALIFICATIONS AND EXPERIENCE.

Applications stating age, education and training, qualifications, present and past appointments (with dates and salaries), experience and the names of two persons to whom reference may be made should reach me by MONDAY, 19th JUNE, 1961.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

## CWMBRAN NEW TOWN, MONMOUTHSHIRE.

Applications are invited from suitably qualified ARCHITECTS who wish to take part in an interesting and varied programme of work including all types of residential development, Town Centre development and Neighbourhood Shopping Centres.

(a) SENIOR ASSISTANT ARCHITECT, Grade A.P.T. V, £1,310-£1,480 p.a. Candidates must be Associates of the R.I.B.A., with suitable office experience.

(b) ARCHITECTURAL ASSISTANTS, Grade A.P.T. III-IV, £960-£1,310. Candidates should have passed the Intermediate Examination of the R.I.B.A. and have had some office experience, particularly in the preparation of working drawings.

The posts are superannuable and Conditions of Service are similar to those in Local Government.

Housing accommodation is available to rent or purchase if required.

Applications stating age, experience, details of present and former employment (together with applicable salaries) and the names and addresses of two referees must reach the undersigned by first post on MONDAY, 26th JUNE, 1961.

J. C. P. WEST, A.R.I.B.A., M.T.P.I.,
Chief Architect.

Cwmbran Development Corporation,
Victoria-street,
Cwmbran,
Mon.

## TAUNTON BOROUGH.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the Borough Architect's Department.

ASSISTANT ARCHITECTS, Grade A.P.T. III-IV (£960-£1,140-£1,310 p.a.).

The Council have an interesting programme of estate development and redevelopment schemes including flatted accommodation, groups of shops, old persons' accommodation, market offices and other ancillary buildings.

The posts are superannuable, subject to medical examination and to National Conditions of Service. Salary placing according to qualifications and experience. Applications stating age, present position and salary, qualifications, experience and names of two referees to be sent to C. Bacon, F.R.I.B.A., Borough Architect, Flook House, Station-road, Taunton, WITHIN 14 DAYS of the appearance of this advertisement.

Housing accommodation will be made available to suitable applicants if required.

K. A. HORNE,
Town Clerk.

## STEVENAGE DEVELOPMENT CORPORATION.

Applications are invited for appointment as ASSISTANT ARCHITECT in the Chief Architect's Department on New Towns' Salary Grade A.P.T. IV-V (£1,140-£1,480)—starting salary according to qualifications and experience. Applicants should be Associates of the Royal Institute of British Architects and have experience in design and construction of modern buildings.

Living accommodation will be available in an appropriate case. Local Government superannuation; five-day week.

Applications giving details of experience and the names of two referees should be sent to the Chief Administrative Officer, Daneshill House, Danestreet, Stevenage, Herts, not later than WEDNESDAY, 21st JUNE, 1961.

## BICESTER URBAN DISTRICT COUNCIL.

CLERK OF WORKS for Housing Contracts. Salary scale £760-£825. Commencing salary within the scale. Housing and superannuation considered. Applications giving age, present and past appointments, experience and two referees. Applications in writing by FRIDAY, 16th JUNE, to Clerk of the Bicester Urban District Council, The Garth, Bicester, Oxon.

# VENEERED BOARDS

*Always In Stock*

## OAK VENEERED ON CROSS GRAIN PLYWOOD

| | |
|---|---|
| 50" x 50" | 78" x 30" |
| 60" x 50" | 80" x 32" |
| 60" x 60" | 84" x 36" |
| 72" x 36" | 86" x 48" |
| 72" x 48" | 96" x 48" |

IN THICKNESSES 4 mm, 5 mm, 6 mm, 9 mm and 12 mm.

## OAK VENEERED ON BLOCKBOARD

| | |
|---|---|
| 60" x 60" | 72" x 60" |
| 72" x 50" | 96" x 48" |

IN THICKNESSES ⅝", ¾", ⅞", 1".

## SAPELE FACED PLYWOOD

***Redwood or Poplar Balancing Veneer Reverse***

| | | |
|---|---|---|
| 72" x 48" x 3 mm | | 81" x 33" x 4 mm |
| 72" x 48" x 4 mm | 78" x 30" x 4 mm | 84" x 36" x 4 mm |
| 78" x 24" x 4 mm | 78" x 31" x 4 mm | 96" x 48" x 4 mm |
| 78" x 27" x 4 mm | 78" x 33" x 4 mm | 96" x 48" x 6 mm |

## SAPELE FACED BLOCKBOARD

***Redwood Balancing Veneer Reverse***

96" x 48" x 18 mm.

Veneered boards and cut to size panels in all exotic timbers, e.g. Afrormosia, Rosewood, Iroko, Birds Eye Maple, Zebrano, Ebony, etc.

***Price List on Request***

**VENEERED AND IMPORTED PLYWOOD PRODUCTS LIMITED**

**Temple Works, Brett Passage, Kenmure Rd., Amhurst Rd., Hackney, E.8.** **AMH 4833/4/5**



# "Invisible Vacuum Cleaning?"

**Builder:** Now that we've settled the central heating . . . let's discuss the central vacuum cleaning.

**Client:** *I don't quite see what you mean . . .*

**B:** Of course you don't. Nobody can see it. It's *invisible* vacuum cleaning.

**C:** Invisible *vacuum cleaning?*

**B:** Yes. A hose is plugged into the wall of every room . . . and all dust and dirt is *silently* piped away. No heavy cleaner to drag around, no trailing cables.

**C:** *Sounds pretty marvellous.*

**B:** *Except* that you don't hear a sound.

**C:** *What about cost?*

**B:** Rental is 10/3*d.* a week. If you buy it's 66½ gns. completely installed. And there are easy H.P. Terms. I'll get you an illustrated leaflet from:
Dept. B, THE BUILT-IN VACUUM CLEANER CO. LTD.,
93 Black Lion Lane, London, W.6.
RIVerside 2848.

**C:** *Good. Let me have the leaflet soon.*

**B:** Don't worry. I'll drop them a line today!



Telephone: ENField 8383/4/5 Telegrams: Quality, Enfield

# SHUTTER CONTRACTORS

LIMITED

**LINCOLN WORKS**
**GREAT CAMBRIDGE RD · ENFIELD · MIDDX.**

LONDON: 12 DUKE STREET, ST. JAMES'S, S.W.1
Telephone: WHitehall 6988

MANUFACTURERS OF

*Quality*

**ROLLING SHUTTERS IN STEEL, WOOD & ALUMINIUM ALLOY**

FOR ALL TYPES OF BUILDINGS

APPROVED MANUFACTURERS TO F.O.C. AND L.C.C. REQUIREMENTS

CONTRACTORS TO
H.M. GOVERNMENT - ALL DEPARTMENTS, PUBLIC UTILITY COMPANIES, COUNCILS, PRINCIPAL RAILWAYS, INSTITUTIONS, ETC.



PYROK

Reg Trade Mark

*for* FIRE PROTECTION
SOUND ABSORPTION
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## NORTH RIDING
### COUNTY COUNCIL.

Opportunities for applicants of initiative and drive, and who appreciate a five-day week in good working conditions, for dealing with a varied programme of work for all Committees of the Council.

Position within the salary ranges shown below will be given according to ability and qualifications.

(a) ASSISTANT ARCHITECTS. Grade A.P.T. IV-V. £1,140-£1,480. Must have passed the Final Examination of the R.I.B.A.

(b) ARCHITECTURAL ASSISTANTS. Grade A.P.T. III, £960-£1,140. Must have passed Part I of the Final Examination of the R.I.B.A.

(c) ARCHITECTURAL ASSISTANTS. Grade A.P.T. II. £815-£960. Must have passed Intermediate Examination of the R.I.B.A.

(d) ASSISTANT ARCHITECTS. Salary according to age, ability and qualifications.

*Appointments during Vacations.*

Consideration will be given to students who wish to come for a period during the long Summer Vacation, or would wish to come during the vacation time over the period of their training at a full-time School of Architecture.

Application forms may be obtained from the County Architect, R. Allport Williams, M.B.E., B.Arch., F.R.I.B.A., County Hall, Northallerton. Completed forms should be returned to the Clerk of the County Council, County Hall, Northallerton, by the 24th JUNE, 1961.

## LIVERPOOL CITY.

ARCHITECTURAL AND HOUSING DEPARTMENT.

Applications are invited for the following appointments. Salary in each case £1,860-£2,345 per annum, in accordance with Scale E/F.

(a) PRINCIPAL ARCHITECT (EDUCATION) to take charge of the section concerned with the City's Education Building Programme which includes Technical Colleges, Training Colleges, as well as Primary, Secondary and Special Schools.

(b) PRINCIPAL ARCHITECT (GENERAL) to take charge of the section dealing with the Architectural works of all Committees of the Corporation, except the Housing and Education Committees, involving a great variety of civic and public buildings.

Applicants must be Fellows or Associates of the Royal Institute of British Architects.

The appointments are superannuable and subject to Standing Orders of the City Council. Canvassing disqualifies.

Applicants should state which appointment they wish to apply for. Application forms from the City Architect and Director of Housing, Blackburn Chambers, Dale-street, Kingsway, Liverpool, 2, should be returned to him by 26th JUNE, 1961.

THOMAS ALKER,
Town Clerk.

(J.6849.)

## LONDON
### ELECTRICITY BOARD.

ASSISTANT BUILDING SUPERINTENDENT, NORTH WESTERN AREA.

Applications are invited for the above position in the Building Section, Construction Branch, of the Chief Engineer's Department at Chelsea.

The successful applicant will be required to assist the Building Superintendent in controlling building and maintenance work. He will also be required to take charge of building work carried out by direct labour and to supervise contracts executed by contractors.

Candidates should have had a good general experience within the building industry and be able to assist in preparing estimates, schedules of quantities, and the ordering of materials. They should be acquainted with building specifications and be able to work from architectural drawings, and also have a knowledge of building bye-laws and various Acts of Parliament for the building industry.

The post is graded under Schedule "B" of the National Joint Board Agreement as Grade 8, Class BX, and the commencing salary will be in the range of £1,155 to £1,460 per annum, inclusive of London Allowance.

Application form obtainable from the Personnel Officer, 46 New Broad-street, London, E.C.2, to be returned completed WITHIN FOURTEEN DAYS of the publication date of this notice. Please quote ref.: PER/V/3277/B.

## SOUTHEND-ON-SEA
### COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT. ASSISTANT QUANTITY SURVEYORS.

Applications are invited for ASSISTANT QUANTITY SURVEYORS to be appointed according to experience within grades A.P.T. IV to V (£1,140-£1,480).

A house will be available and removal expenses paid to successful applicants.

Applications with usual particulars and the names of referees should be sent to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, by MONDAY, 26th JUNE, 1961.

ARCHIBALD GLEN,
Town Clerk.

## CAMBRIDGESHIRE
### COUNTY COUNCIL.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the appointment of CLERK OF WORKS for forthcoming contracts.

Applicants should have held previous posts as a Clerk of Works or as a General Foreman, should have had wide experience in the supervision of all trades and should be able to drive a car (for which mileage allowance will be paid or a fleet car provided).

The salary will be £15 15s. 0d. per week and the appointment will be temporary in the first instance.

The contract works concerned will be starting on site shortly, and are expected to occupy a period of 2-3 years.

Applications, stating age, experience and the names of two referees, should be delivered to the undersigned not later than FRIDAY, 16th JUNE, 1961.

CHARLES PHYTHIAN,
Clerk of the County Council.

Shire Hall,
Cambridge.
19th May, 1961.

## WILLESDEN
### BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following Temporary Appointments:—

(a) GENERAL FOREMAN
(b) CLERK OF WORKS.

Salary for each post would be within Grade A.P.T. III plus London Weighting (£1,005-£1,185 p.a.).

Candidates must have a sound knowledge of building works and considerable experience in supervision during construction of multi-storey flats.

The Council cannot assist with housing accommodation.

Further details and application forms obtainable from Borough Engineer and Surveyor, Town Hall, Dyne-road, N.W.6, and must be returned not later than 10 a.m. on MONDAY, 19th JUNE.

(sgd.) R. S. FORSTER,
Town Clerk.

## HORNSEY
### BOROUGH.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.
Grade A.P.T. II-III.

Applications are invited for the ABOVE APPOINTMENT in the Architects' Section of the Borough Engineer and Surveyor's Department. Salary according to qualifications and experience within Grades A.P.T. II/III (£815 to £1,140, plus London Weighting).

Details and application form from the Borough Engineer and Surveyor, Town Hall, The Broadway, Crouch End, London, N.8.

Application forms to be returned by MONDAY, the 19th JUNE, 1961.

## HOVE
### BOROUGH.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above APPOINTMENT in the Borough Engineer and Surveyor's Department at a salary in accordance with A.P.T. Grade IV (£1,140-£1,310).

Candidates should have a general experience including the preparation of drawings and specifications and should have passed the Final Examination of the Royal Institute of British Architects or equivalent. One month's notice is required on either side.

Consideration will be given to the provision of housing accommodation if required.

Applications stating age, training, qualifications, present and previous appointments and experience, together with the names and addresses of two referees should be delivered to the Borough Engineer and Surveyor, Town Hall, Hove, 3, by SATURDAY, 17th JUNE, 1961.

## HENDON
### BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. SENIOR ASSISTANT ARCHITECT.

Applications are invited for the above appointment at a commencing salary according to experience within Grade A.P.T. V (£1,310 to £1,480 plus London Weighting £45).

Applicants must be Associate Members of the Royal Institute of British Architects. The person appointed will be directly responsible to the Chief Assistant Architect, with opportunity for suitable applicants to act as Group Leaders. Previous experience in school work, housing and redevelopment, or civic buildings, will be an advantage.

Pensionable post. National Scheme. Medical Examination. Appointment terminable by one month's notice on either side.

Applications stating age, education, qualifications, experience, present appointment and salary, together with the names and addresses of two referees, must reach the Borough Engineer and Surveyor, Town Hall, Hendon, N.W.4, by MONDAY, the 26th JUNE, 1961.

Canvassing will disqualify.

R. H. WILLIAMS,
Town Clerk.

Town Hall,
Hendon,
N.W.4.

## STAFFORDSHIRE
### COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified candidates for the following posts:

1. ASSISTANT ARCHITECTS: Grade A.P.T. IV (£1,140-£1,310); Grade A.P.T. V (£1,310-£1,480).

Candidates must be Associates of the R.I.B.A. with subsequent practical experience in the handling of large projects.

2. ARCHITECTURAL DRAUGHTSMEN, Grade Misc. III (£555-£625).

Candidates must have had a minimum of four years' experience in a similar capacity.

The appointments will be subject to:

(a) The National Scheme of Conditions of Service.

(b) The Local Government Superannuation Acts and the passing of a medical examination.

The County Council are prepared to grant a lodging allowance of 35s. per week, for a period of six months, to married applicants maintaining a home outside the geographical County; also second-class rail travel home every second month during the initial six months. The Council are prepared to give consideration to the granting of financial assistance in appropriate cases towards removal expenses. There is a scheme for loans to employees wishing to purchase their own houses.

Forms of application, which must be returned by the 16th JUNE, 1961, may be obtained from: F. Woodcock, F.R.I.B.A., County Architect, Green Hall, Lichfield-road, Stafford.

T. H. EVANS,
Clerk of the County Council.

## MITCHAM
### BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF ASSISTANT STOREKEEPER.

Applications are invited for the established position of ASSISTANT STOREKEEPER on Miscellaneous Grade III of the National Scale of Salaries (£555-£625 per annum) plus London weighting allowance of £25 or £40 according to age.

Application forms and conditions of appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Mitcham, Surrey, to whom completed applications must be forwarded not later than first post on the 23rd JUNE, 1961.

R. H. WHITE,
Town Clerk.

Town Hall,
Mitcham.
June, 1961.

## DUMFRIES
### ROYAL BURGH.

DEPUTE BURGH ARCHITECT.

Applications are invited from QUALIFIED ARCHITECTS, preferably with experience in Redevelopment Work.

The appointment, within the Salary Scale £1,280-£1,430 (by 3 increments of £50), will be subject to the Town Council's Superannuation Scheme and the N.J.I.C. Conditions of Service, and the successful applicant will require to pass a medical examination.

If required, the tenancy of a Council house will be given to the successful applicant.

Applications, stating age, qualifications and experience, and the names of two referees, should be lodged with the undersigned not later than 20th JUNE, 1961.

GEORGE D. GRANT,
Town Clerk.

Municipal Chambers,
Dumfries.
2nd June, 1961.

## CANTERBURY
### EDUCATION AUTHORITY.

CANTERBURY COLLEGE OF ART. SCHOOL OF ARCHITECTURE.

Applications are invited for the following post in the School of Architecture commencing September, 1961:—

Full-time ASSISTANT in Structural Design and Building Services. Applicants should be suitably trained and qualified.

Salary will be in accordance with Grade B Scale of the Burnham Technical Report (i.e. £700 x £27 10s. 0d. to £1,150 per annum), with allowances for graduate qualifications, training and approved previous experience.

Applications by letter giving details of training, qualifications and experience, together with the names of two referees, should be addressed to the Principal, College of Art, St. Peter's-street, Canterbury.

N. POLMEAR,
Chief Education Officer.

78 London-road,
Canterbury.

## LEICESTER CITY.

EDUCATION COMMITTEE.
LEICESTER COLLEGE OF ART.
Principal: E. E. Pullée, A.R.C.A., F.R.S.A.

Applications are invited for the post of LECTURER in the School of Building. Applicants should be Chartered Surveyors in either the Quantity Surveying or Building sections.

Salary Burnham Technical Scale—£1,370 to £1,550 p.a.

Further particulars and application forms may be obtained from the Registrar at the College.

## THE UNIVERSITY COLLEGE OF SUSSEX.

CLERK OF WORKS FOR ENGINEERING SERVICES.

Applications are invited for the ABOVE APPOINTMENT at a salary in the range of £1,000 to £1,300 per annum.

The Clerk of Works will be employed by the University to supervise the installation of Engineering Services in Stage I of an extensive development programme. The services installations include a high pressure hot water boiler house and external and internal distributions for heating and hot and cold water supplies, fire services, gas, compressed air, vacuum etc. ventilation, electrical and plumbing and drainage works.

The first two buildings of Stage I are now under construction and a further four buildings are proposed. Subject to satisfactory service, there is a possibility of continuity of employment through a prolonged building programme.

Further details may be obtained from T. C. Green, Esq., B.Arch., A.R.I.B.A., Buildings Officer, The University of Sussex, Stanmer House, Brighton, Sussex.

Applications, giving age, qualifications, experience, present post, salary and names of two referees should be forwarded to Steensen, Varming & Mulcahy, Consulting Engineers, 146 New Cavendish-street, London, W.1, by 20th JUNE, 1961.

## HAYES AND HARLINGTON
### U.D.C.

require a

BUILDING CLERK OF WORKS

Salary within Grade A.P.T. I, i.e., £645-£815 p.a. plus London "Weighting." Candidates must have a sound, practical and up-to-date knowledge of all Building trades, be capable of keeping records, submitting reports and measuring up work in progress. Subject to satisfactory service the person appointed will be transferred from job to job. A continuing programme of work is anticipated. Working hours related to those of Contractor which normally attracts payment at overtime rates. No housing accommodation available.

Further particulars, form of application, etc., available from the undersigned, which when completed must be returned by 19th JUNE, 1961.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes,
Middlesex.

## DENBIGHSHIRE
### COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT, WREXHAM.

Applications are invited for the following appointments in the above Department:—

(a) TWO ARCHITECTURAL ASSISTANTS, A.P.T. Grade III–IV (Salary £960-£1,310 per annum).

(b) TWO ARCHITECTURAL ASSISTANTS, A.P.T. Grade II-III (salary £815-£1,140 per annum).

(c) QUANTITY SURVEYING ASSISTANT, A.P.T. Grade II-III (salary £815-£1,140 per annum).

(d) ONE ARCHITECTURAL ASSISTANT, A.P.T. Grade I-II (salary £645-£960 per annum).

Contribution made towards removal expenses of successful applicants and consideration given to the payment of subsistence allowances to married officers.

Application forms and further particulars obtainable from me. Completed forms to be returned by 24th JUNE, 1961.

W. E. BUFTON,
Clerk of the County Council.

County Offices,
Ruthin.

## DORKING
### URBAN DISTRICT COUNCIL.

MAINTENANCE AND BUILDING SURVEYOR.
(Grade A.P.T. III (£960-£1,140).

Applications are invited for the ABOVE APPOINTMENT.

Applicants should have had experience and possess an appropriate qualification.

Housing accommodation will be provided if required and also essential user car allowance.

Application forms and full particulars may be obtained from the Engineer and Surveyor and applications should reach him not later than 9 a.m. on FRIDAY, 16th JUNE, 1961.

F. G. SUTHERLAND,
Clerk of the Council.

Council Offices,
Pippbrook,
Dorking,
Surrey.
31st May, 1961.

## BURNLEY
### COUNTY BOROUGH.

Applications are invited for the appointment of ASSISTANT ARCHITECT in the Borough Engineer and Surveyor's Department at a salary in accordance with A.P.T. Grade III-IV (£960-£1,310 per annum), commencing salary to be fixed in accordance with qualification and experience.

Five-day week. Housing accommodation will be provided if required.

Form of application, etc., may be obtained from the Borough Engineer, 22-24 Nicholas-street, Burnley, to whom applications must be returned not later than FRIDAY, 23rd JUNE, 1961.

C. V. THORNLEY,
Town Clerk.

## WIDNES
BOROUGH.

ARCHITECT'S DEPARTMENT.

Applications, quoting two referees, are invited for the following posts and should be addressed to Borough Architect, Brendan House, Widnes. Closing date 4th JULY, 1961.

(a) SENIOR ARCHITECT. Grade A.P.T. V (£1,310-£1,480 p.a.).

(b) ASSISTANT ARCHITECTS (2). Grade A.P.T. IV (£1,140-£1,310 p.a.).

(c) QUANTITY SURVEYING ASSISTANT. Grade A.P.T. II (£815-£960 p.a.).

(d) JUNIOR ASSISTANT. General Division (£220-£630 p.a.).

Candidates for (a) and (b) must be registered architects and preferably Associate Members of the R.I.B.A. with suitable experience. (c) Must have passed the Intermediate Examination of the R.I.C.S. or the Final Examination of the I.Q.S. (d) Should be not less than 16 years of age and have a General Certificate of Education in five subjects including English (English language) and a Mathematics or a Science subject, at least two subjects being at "A" level.

Housing accommodation to rent or lodging allowance in lieu for married applicants for posts (a) and (b). Removal expenses in full. Five-day week. Superannuation scheme; medical examination.

FRANK HOWARTH,
Town Clerk.

Town Hall,
Widnes.
May, 1961.

## EXETER
CITY COUNCIL.

CITY ARCHITECT'S DEPARTMENT.

THREE SENIOR ASSISTANT ARCHITECTS required on the established staff to work on an interesting and varied programme of local authority works.

Salary within A.P.T. Grade IV (£1,140 to £1,310), entry point on the grade depending on experience. PROVISION OF HOUSING ACCOMMODATION will be considered and removal expenses will be paid.

Applicants must be Associate members of the R.I.B.A. N.J.C. Conditions of Service. Successful candidates will be required to pass a medical examination.

Applications stating age, experience and qualifications, should be received by the City Architect, Municipal Offices, Exeter, not later than 19th JUNE, 1961.

## LEYTON
BOROUGH.

Applications are invited for appointment of CLERK OF WORKS at a salary within the scale range of Grade A.P.T. I, viz., £645 rising to £815 per annum plus London Weighting. Commencing salary to be fixed according to qualifications and experience.

Applicants must have had practical experience of the supervision of construction, alteration and maintenance of buildings.

National Conditions of Service. Five-day week.

Apply by letter to the Borough Engineer, Town Hall, Leyton, E.10, with details of age, present and previous employment and names of two referees, not later than MONDAY, 19th JUNE, 1961.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

## EAST HAM
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
QUANTITY SURVEYOR, GRADE II, £815-£960 per annum.

London Weighting is paid in addition. Salary in excess of the minimum may be paid according to qualifications and experience.

Preference given to candidates who have passed the intermediate examination of the R.I.C.S. (Quantities Division) or other equivalent examination. Will be required to work under the direction of a Chartered Quantity Surveyor.

A subsistence allowance may be granted over a reasonable period to the person appointed if unable to obtain suitable housing accommodation necessitating the maintenance of two homes.

Further details and application forms returnable by 23rd JUNE, 1961, from the Town Clerk, Town Hall, East Ham, E.6.

## LEYTON
BOROUGH.
(In the County of Essex).

APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T. I, £645-£815 per annum plus London Weighting. The successful application will be employed by the Essex County Council and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hall, Leyton, E.10. Five-day week is operated.

Details and form of application from the Borough Education Officer, Education Offices, Kirkdale-road, Leytonstone, E.11, to whom they should be returned WITHIN 14 DAYS from the appearance of this advertisement.

## QUEEN MARY COLLEGE
(UNIVERSITY OF LONDON).

MAINTENANCE DEPARTMENT.
SURVEYING ASSISTANT
(MAINTENANCE)

age 24-30. The work involves surveys for alterations and improvements, preparation of plans, approximate estimates and inspection reports.

Salary £650 by £25 to £800 by £30 to £950. Commencing salary according to age and experience.

Five weeks' holiday; Pension Scheme; 35-hour week.

Applications, stating age, experience and present salary and appointment, should reach the undersigned not later than 19th JUNE, 1961.

G. D. PARFITT,
Maintenance Officer.

327 Mile End-road, E.1.

## EAST ANGLIAN
REGIONAL HOSPITAL BOARD.

TEMPORARY CLERK OF WORKS required for construction of New Medical Ward Unit and X-ray Department at North Cambridgeshire Hospital, Wisbech. The work is estimated to cost £80,000 and is expected to take approximately 20 months to complete.

Salary £800 x £40(5) x £50(1)-£1,050 per annum with entry at point appropriate to relevant experience.

Applicants must possess thorough knowledge of all asnects of building trade. Membership of Institute of Clerks of Works or possession of Clerk of Works Diploma of Association of Building Technicians an advantage.

Applications stating age, qualifications and previous experience with names of 3 referees (2 of whom should be architects) to Secretary of Board, 117 Chesterton-road, Cambridge, by 26th JUNE, 1961.

## ESSEX
COUNTY COUNCIL.

ASSISTANT BUILDING SURVEYOR, A.P.T.D. III, commencing salary according to qualifications and experience but not exceeding £1,140. The officer appointed will be required, in the first place, to work in the North-East Essex Division from an office at Colchester and will subsequently be transferred to the staff of the Borough Architect when the Borough of Colchester take over from the County Council the maintenance of school buildings within that Borough.

Work includes reports, estimates, specifications and supervising repair and maintenance of buildings. R.I.B.A. Building Surveyors Diploma an advantage.

Application form from H. Conolly, C.B.E., F.R.I.B.A., County Architect, County Hall, Chelmsford, to be returned with copies of three testimonials by 23rd JUNE, 1961.

## REDHILL
GROUP HOSPITAL MANAGEMENT COMMITTEE.

EARLSWOOD MOUNT,
PENDLETON-ROAD, REDHILL.

BUILDING SUPERVISOR required who will be responsible for the planning and supervision of the building maintenance work of the Group. The work includes the preparation of estimates, drawings and specifications, etc. The person appointed must have served a full apprenticeship followed by experience as a craftsman in an appropriate trade, and had some years' experience as a general foreman in the carrying out of building contracts. It is also desirable that he should have the Ordinary National Certificate or a comparable qualification and be between 30 and 45 years of age. Salary £930 x £30(3) x £35(2)—£1,090 p.a. plus extra duty allowance of 6¼ per cent.

Applications stating age, experience, qualifications and names and addresses of two referees to Group Secretary at the above address not later than 17th JUNE, 1961.

## OXFORDSHIRE
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.
ASSISTANT ARCHITECTS, A.P.T. Grade V (£1,310-£1,480) (Starting salary according to experience.)

Applications are invited from Qualified Architects to work on an interesting and varied building programme.

The appointments are superannuable and subject to medical examination.

The Council will pay 50 per cent. of any removal expenses. Five day working week.

Applications for forms and further particulars should be made at once from the undersigned.

ALBERT E. SMITH,
County Architect.

Park End-street Offices,
Oxford.

## CHESHIRE

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited, on forms obtainable from me, for posts of ARCHITECTURAL ASSISTANT in Grade A.P.T. III, £960 rising by five annual increments to £1,140 per annum.

EDGAR TABERNER, A.R.I.B.A.,
County Architect.

County Hall,
Chester.

## DORSET
COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

PLANNING ASSISTANT (A.P.T. Grade II-III, £815-£960-£1,140 per annum) required to assist with Development Plan work for the Boroughs of Poole and Weymouth and for liaison on Development Control with those authorities.

Candidates should have passed the intermediate examination of the Town Planning Institute. Experience of this work would be an advantage.

Progression to A.P.T. Grade III will depend on the successful applicant passing the final examination of T.P.I.

Applications giving age, education, qualifications, experience, past and present appointments and naming three referees to the Clerk, County Hall, Dorchester, by 24th JUNE, 1961.

## LEYTON
BOROUGH.
(In the County of Essex).

COMMITTEE FOR EDUCATION.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of ARCHITECTURAL ASSISTANT, Grade A.P.T. III £960-£1,140 per annum, plus London Weighting. The successful applicant will be employed by the Essex County Council and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hall, Leyton, E.10. Five-day week is operated.

Details and forms of application from the Borough Education Officer, Education Offices, Kirkdale-road, Leytonstone, E.11, to whom they should be returned WITHIN 14 DAYS from the appearance of this advertisement.

## EDINBURGH
CORPORATION.

DEPARTMENT OF THE CITY ARCHITECT.

ASSISTANT ARCHITECTS qualified by examination, Salary, Professional Assistants Scale, £850-£1,320 per annum, with placing according to experience.

ARCHITECTURAL ASSISTANTS unqualified, with some experience. Salary Scale, Executive Division Grade I-IV, £640-£925, with placing for suitable applicants.

Applications, giving age, full details of qualifications and experience and the names of two referees as to character, to the City Architect, City Chambers, Edinburgh 1, as soon as possible, marked "Staff—Confidential."

## WANSTEAD AND WOODFORD
BOROUGH.

BUILDING INSPECTOR'S ASSISTANT.
(Miscellaneous Grade IV, £625-£685 plus London Weighting £15-£40.)

Applications are invited for this POST in the Borough Engineer's Department. Application forms obtainable from L. S. Jeffery, Borough Engineer and Surveyor, Municipal Offices, High-road, Woodford, E.18, should be returned by FIRST POST on 22nd JUNE, 1961.

## ESSEX
COUNTY COUNCIL.

Applications invited from men for post of CIVIL DEFENCE RESCUE INSTRUCTOR on temporary staff. Person appointed will be required to instruct volunteers and other potential instructors. Candidates should be experienced in instructional work and possess a Rescue Instructor's Certificate from a Home Office Civil Defence Technical Training School. Salary according to qualifications and experience, but not exceeding £815 a year. National A.P.T. & C. Scheme of Conditions of Service as applied to temporary staff. Medical examination. Person appointed required to undertake evening and week-end duty. Canvassing forbidden.

Applications in own handwriting should be addressed to County Clerk, County Hall, Chelmsford, as soon as possible, stating particulars of age, education, qualifications and experience and the names and addresses of three referees.

## MERTHYR TYDFIL
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a PERMANENT CLERK OF WORKS in the Borough Architect's Department, at a salary of Grade A.P.T. II (£815-£960) per annum.

Candidates must have experience as a Clerk of Works or General Foreman in the construction of substantial building contracts and preference will be given to candidates who hold the higher national certificate in building.

Applications, stating age, qualifications, experience, with the names of two referees, must be received by the undersigned not later than the 21st JUNE, 1961.

Canvassing in any form will disqualify.

T. S. EVANS,
Town Clerk.

Town Hall,
Merthyr Tydfil.
30th May, 1961.

## NORTH-EAST METROPOLITAN
REGIONAL HOSPITAL BOARD.

40 Eastbourne-terrace, W.2.

W. G. Plant, Dip.Arch.(L'pool), F.R.I.B.A., Regional Architect.
HOSPITAL BUILDING PROGRAMME.
APPOINTMENT OF SURVEYORS.

Applications are invited from Quantity and Building Surveyors for the undermentioned posts, which offer exceptional opportunities for gaining experience in a wide, varied and interesting field. Applicants for posts as Assistant Surveyors should be Corporate Members of the Royal Institution of Chartered Surveyors (Quantities or Building) and Surveying Assistants should have passed the Intermediate examination of the Royal Institution of Chartered Surveyors. The posts are permanent and pensionable, with good prospects of promotion. Five-day week.

ASSISTANT SURVEYOR. Salary scale £945-£1,360, the commencing point depending on age and experience. Leave 20-23 days.

SURVEYING ASSISTANT. Salary scale £645-£940, the commencing point depending on age and experience. Leave 15-20 days.

Applications, giving age, details of education, professional training, qualifications, experience and past and present appointments, present salary and other relevant details, together with the names and addresses of two referees, should be sent to The Secretary, North-East Metropolitan Regional Hospital Board, 40 Eastbourne-terrace, London, W.2, WITHIN 14 DAYS.

## WARWICKSHIRE
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Appointment of DEPUTY GROUP ENGINEER (HEATING), Grade "A" —(£1,450-£1,565).

Applications are invited for the ABOVE APPOINTMENT from persons who have had several years' experience in design, costing and handling large contracts for heating, water supplies and allied services. Applicants should be members of the Institute of Heating and Ventilating Engineers or hold a comparable qualification.

The commencing salary can be within the grade according to ability and experience. Five-day week worked. The Council have schemes for the payment of removal expenses and a lodging allowance to married officers.

Application forms and full conditions applicable to the appointment can be obtained from Eric Davies, F.R.I.B.A., A.M.T.P.I., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.
June, 1961.

## NEW SARUM CITY.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment on the established staff of the City Engineer of an:

ARCHITECTURAL ASSISTANT, Grade A.P.T. I, II or III.

The Grade within which the appointment will be made will depend upon experience and qualifications but preference will be given to candidates who have passed the Intermediate examination of the R.I.B.A.

The post is pensionable, subject to N.J.C. conditions, and a 5-day week is worked. Housing accommodation can be made available if required.

The department is engaged on an interesting programme of capital works including a Swimming Bath, Civic Hall, and a comprehensive redevelopment scheme.

Applications stating age, qualifications, present and previous appointments with salary, together with the names of two referees to the City Engineer, the Council House, Bourne Hill, Salisbury, by MONDAY, 19th JUNE, 1961.

GEO. RICHARDSON,
Town Clerk.

## HEREFORD CITY.

APPOINTMENT OF CITY ARCHITECT.

Applications are invited for the appointment of CITY ARCHITECT at a salary commencing at £1,560 per annum and rising by four annual increments of £75 to a maximum of £1,860 per annum. The Conditions of Service contained in the Memorandum and Recommendations of the Joint Negotiating Committee for Chief Officers of Local Authorities will apply to the appointment. A lump sum car allowance will be paid and temporary housing accommodation will be made available, if required. The appointment is determinable by either party on giving three months' notice in writing.

Candidates must be members of the Royal Institute of British Architects.

Particulars of the appointment and forms of application may be obtained from the undersigned to whom applications must be delivered not later than 26th JUNE, 1961.

J. A. WESTON,
Town Clerk.

Town Hall,
Hereford.

## NORTH RIDING
COUNTY COUNCIL.

Applications are invited for a TEMPORARY CLERK OF WORKS to supervise the ERECTION OF THE MALTON NEW COUNTY JUNIOR SCHOOL.

Salary £720 x £20-£820 p.a.

Form of application available from the County Architect, County Hall, Northallerton, and completed applications to be returned to the Clerk of the County Council, County Hall, Northallerton, by 23rd JUNE, 1961.

## SOUTHAMPTON
COUNTY BOROUGH.

Applications are invited for the following appointment:—

ASSISTANT ARCHITECT, Grade A.P.T. V (£1,310-£1,480) for duties in connection with an extensive and varied programme of housing development including multi-storey flats. Applicants must hold the qualification A.R.I.B.A. with wide experience in the design and administration of major building works.

The appointment is subject to N.J.C. conditions of service.

Housing accommodation available in approved cases and approved removal expenses reimbursable up to a maximum of £50.

Apply on application forms obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, returnable by MONDAY, 26th JUNE, 1961.

## WATFORD
BOROUGH.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR. Salary within Grade A.P.T. III (£960-£1,140). Applicants should be suitably qualified.

Applications to the undersigned by 23rd JUNE, 1961.

F. C. SAGE,
Borough Engineer.

Town Hall,
Watford,
Herts.

## BRITISH RAILWAYS.

ASSISTANT QUANTITY SURVEYOR required in the office of the Architect, Eastern Region, King's Cross Station. Applicants should have had experience of taking off, measuring variations and preparing estimates and specifications for architectural work on the Standard Method of Measurement. Candidates must have passed the final examination of the R.I.C.S. Salary range £1,070-£1,145. Five-day week; concessionary rail travel; permanency and membership of superannuation scheme to suitable applicant after probationary period.

Apply in writing giving particulars of age, experience and qualifications to Architect, Chief Civil Engineer, British Railways, Eastern Region, King's Cross Station, London, N.1.

## HOLBORN
METROPOLITAN BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

ASSISTANT CLERK OF WORKS required. Salary £750-£850 according to experience and qualifications. Applications with names of three referees to Town Clerk, Town Hall, High Holborn, W.C.1.

## OXFORD
REGIONAL HOSPITAL BOARD.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the appointment of a TEMPORARY CLERK OF WORKS to supervise the building of the first stage of the Development of the Kettering General Hospital, Northamptonshire (approximate cost £700,000).

The duration of the contract will be approximately 2½ years.

Salary £1,050 p.a. plus a responsibility allowance of £50 p.a.

Applications, stating age, qualifications, previous experience, present appointment and date when available, together with the names of two referees, should reach the Secretary, Oxford Regional Hospital Board, 43 Banbury-road, Oxford, not later than 19th JUNE, 1961.

## REIGATE
BOROUGH.

CLERK OF WORKS required. Salary £850 p.a.; casual car user's allowance. Practical knowledge of building trade, experience in setting out, levelling, supervision of erection of building and keeping site records essential.

Application forms from Borough Engineer, Town Hall, Reigate, to be returned to him, endorsed "Clerk of Works," not later than FRIDAY, the 23rd JUNE, 1961.

HEBER DAVIES,
Town Clerk.

Town Hall,
Reigate.
May, 1961.

## MANCHESTER
CORPORATION TRANSPORT DEPARTMENT.

Require JUNIOR ENGINEERING ASSISTANT for Building and Civil Engineering Construction and Maintenance. Salary £645-£815. Point of entry according to qualification and experience.

Application forms and details obtainable from General Manager, Manchester Corporation Transport Department, 55 Piccadilly, Manchester, 1, returnable not later than MONDAY, 19th JUNE, 1961.

## LEEDS CITY.

APPOINTMENT OF DEPUTY CITY ARCHITECT.

Applications are invited from members of the Royal Institute of British Architects for the appointment of DEPUTY CITY ARCHITECT at a commencing salary of £2,405 per annum rising by increments of £100 to £2,705. A casual user motor car allowance is also payable.

Assistance will be given in providing housing accommodation if required.

The appointment is superannuable; medical examination.

Application forms to be obtained from the undersigned are to be returned not later than FRIDAY, 23rd JUNE, 1961.

Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,
City Architect.

Priestley House,
Quarry Hill,
Leeds 9.

## ISLE OF ELY
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of HEATING ENGINEER.

Salary will be within Grade A.P.T. V (£1,310-£1,480) with Essential User car allowance.

Applicants must be A.M.I.H.V.E.

The post will be subject to N.J.C. Conditions and the passing of a medical examination.

Application forms and further particulars may be obtained from the County Architect, County Hall, March, to whom they must be returned by not later than MONDAY, 26th JUNE, 1961.

R. F. G. THURLOW,
Clerk of the County Council.

## CHURCH COMMISSIONERS

Applications are invited for the following appointments, based in London:

(a) ASSISTANT ARCHITECTS. Candidates must be fully qualified members of the R.I.B.A. Commencing salary during 12 months' probation to be £1,450 per annum followed, if satisfactory, by appointment on an established pensionable basis on a scale of £1,516-£2,015 subject to medical examination. These posts cover advisory duties on the planning of Churches and Parsonages and executive duties in the erection and maintenance of Bishops' Houses, including the maintenance of historic palaces, castles and listed buildings.

(b) ARCHITECTURAL ASSISTANTS for drawing office duties in connection with domestic buildings. Candidates for this post should have passed the Intermediate R.I.B.A. examination. Salary according to experience within the scale of £980-£1,265.

Apply in writing to the Establishment Officer, Church Commissioners, 1 Millbank, Westminster, S.W.1, not later than 19th JUNE, 1961.

## LEWISHAM
METROPOLITAN BOROUGH.

CLERK OF WORKS on Temporary Staff, with experience of building contracts. Salary £855-£1,000 p.a. (age 26 and over).

Write giving full particulars of age, experience, etc., to Borough Architect, Lewisham Town Hall, Catford, S.E.6.

## BUCKS
COUNTY COUNCIL.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the temporary appointment of a CLERK OF WORKS under the County Architect, at a salary up to £18 per week, according to qualifications and experience.

The appointment is for the supervision of major building contracts in the High Wycombe/Marlow area.

Applications, on forms provided, must be delivered to the undersigned by 19th JUNE, 1961.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury,
Bucks.

## MALDON
BOROUGH.

Applications invited for the post of TEMPORARY CLERK OF WORKS (BUILDING WORKS) in the Borough Engineer's Department, for a period of approximately six months, with a possibility of permanent employment.

The salary will be at the rate of £750 per annum, and the appointment will be subject to one month's notice on either side. Applications, giving age and experience, to the undersigned, by FIRST POST on 20th JUNE, 1961.

Applicants to declare any relationship to Members or Senior Officers of the Council.

K. C. ROBERTSON,
Town Clerk.

Municipal Offices,
Maldon,
Essex.

## FINCHLEY
BOROUGH.

HOUSING DEPARTMENT.
TEMPORARY ARCHITECTURAL ASSISTANT.

Salary within Grades III-IV (£960-£1,310) for a Qualified Architect. London Weighting additional.

Candidates must have had at least five years' practical office experience.

The National Scheme of Conditions of Service and the Local Government Superannuation Acts apply and medical examination required.

Applications, stating age and full particulars of qualifications and experience, with the names of two referees, to the Borough Housing Officer, The Avenue, Finchley, N.3, by FIRST POST on 21st JUNE, 1961.

R. M. FRANKLIN,
Town Clerk.

Municipal Offices,
N.3.

## SHEFFIELD
UNIVERSITY.

Applications are invited for a post of TECHNICAL ASSISTANT on the staff of the Planning Office which offers opportunity for interesting work on the New Building Programme. Applicants should have had some drawing office experience and a background of building subjects. Initial salary dependent on ability and experience within the range £600-£675. Apply, not later than SATURDAY, 17th JUNE, 1961, giving details of age, present and previous appointments, experience and the names and addresses of two referees, to the Bursar, the University, Western Bank, Sheffield, 10.

# NAVY WORKS DEPARTMENT
## *ADMIRALTY*

There is a vast field for adventurous and progressive thought in the recently-formed Architects' Section of the Navy Works Department at Headquarters (Pinner, Middlesex). More Architects and Architectural Assistants of the under-mentioned grades are required to help in the task of applying new ideas to the design of Naval buildings of all kinds. Architects (Main and Basic Grades) are also required at Liverpool and Rosyth at salaries slightly less than in London.

**(i) ARCHITECTS** (Main Grades) to lead small groups of Assistants and to be in full professional control of jobs. Salary scale: £1,506—£2,010 p.a. (London Rate).

**(ii) ARCHITECTS** (Basic Grades) having the same degree of professional responsibility as (i) above in respect of less sizeable jobs. Salary range: £976 at age 25 to £1,308 at 34 or over. Maximum £1,480 p.a. (London Rate).

**(iii) ARCHITECTURAL ASSISTANTS** (Leading Grades) to work with professional grades (i) and (ii) above. Salary scale: £1,033—£1,205 p.a. (London Rate).

**(iv) ARCHITECTURAL ASSISTANTS** (Basic Grade) to work with professional grades (i) and (ii) above. Salary scale: £638 at age 21 to £945 at age 28 or over to maximum of £1,033 (London Rate).

Grades (i) and (ii) will need to be Associates R.I.B.A. by examination, with energy and first-class design ability. Grades (iii) will need to have passed the Intermediate R.I.B.A. examination, and preference will be given to candidates who are well on the way to becoming fully qualified. Grade (iv) will need to have had not less than 2 years' Drawing Office experience and preference will be given to candidates who are already studying for the Intermediate R.I.B.A. Examination.

Good promotion prospects particularly for Leading and Basic Architectural Assistants who qualify for A.R.I.B.A.

Those studying for the Intermediate and Final R.I.B.A. examination will be considered for day release.

The posts offered are non-pensionable, but there will be opportunities for establishment.

Conditions of Work: 5-day week, initial annual leave allowance 25 days for "Main Grade", 22 days for Basic Grade Architects and Leading Architectural Assistants, 18 days for Basic Grade Architectural Assistants. All candidates must be British subjects.

Applications by letter giving full particulars should be sent to:

**Director General, Navy Works, Ref. 45/96/123 (CA),**
**Admiralty,**
**Chamberlain Way,**
**Pinner, Middlesex.**

# OVERSEAS PUBLIC APPOINTMENTS

## SIERRA LEONE

ASSISTANT SUPERINTENDENT OF WORKS (BUILDING).

Required for direct works unit at Fourah Bay College, Freetown, Sierra Leone on contract for tour of 12 to 18 months in first instance. Salary according to experience in scale (including overseas allowance) £966 rising to £1,359 a year. Gratuity at rate of 15 per cent. of salary. Children's allowance up to £300 a year. Outfit allowance £60. Free passages. Liberal leave on full pay and rent free accommodation. Candidates should be capable of undertaking the construction to final completion of Laboratories, Students' Hostel and Teaching Blocks, partly in loadbearing blockwork and partly multi-storey R.C. frame with block infilling.

Apply to Crown Agents, 4 Millbank, London, S.W.1, by 23rd JUNE, for application form and further particulars, stating age, name, brief details of qualifications and experience and quoting reference M2B/51093/BH.

## AIR MINISTRY.

QUANTITY SURVEYORS—OVERSEAS.

Air Ministry require CHARTERED QUANTITY SURVEYORS for service initially in overseas areas on tours of two or three years' duration according to location.

Basic salary according to age and experience ranging from £961 at 25 to £1,298 at 34 or over to £1,470 (max.). An increase of £75 p.a. (within max. of scale) after two years' satisfactory service subject to corporate membership of R.I.C.S. being held. In addition Tax Free foreign service allowance varying according to location, marital status, etc., e.g. total emoluments at Cyprus at age 25 from £1,286-£1,736 (single man) and £1,646-£2,361 for married man.

Kit allowances, and free passage for self, and family when accommodation arranged. Free medical and education arrangements. Five-day week, paid annual leave initially four weeks and two days.

Completion of tour to be followed by duties in U.K. with opportunities for further tours overseas. Appointments are non-pensionable but there are good promotion and pension prospects.

Application forms and full particulars from Ministry of Labour, Technical and Scientific Register (K), 26 King-street, London, S.W.1, quoting J.79/10/A.

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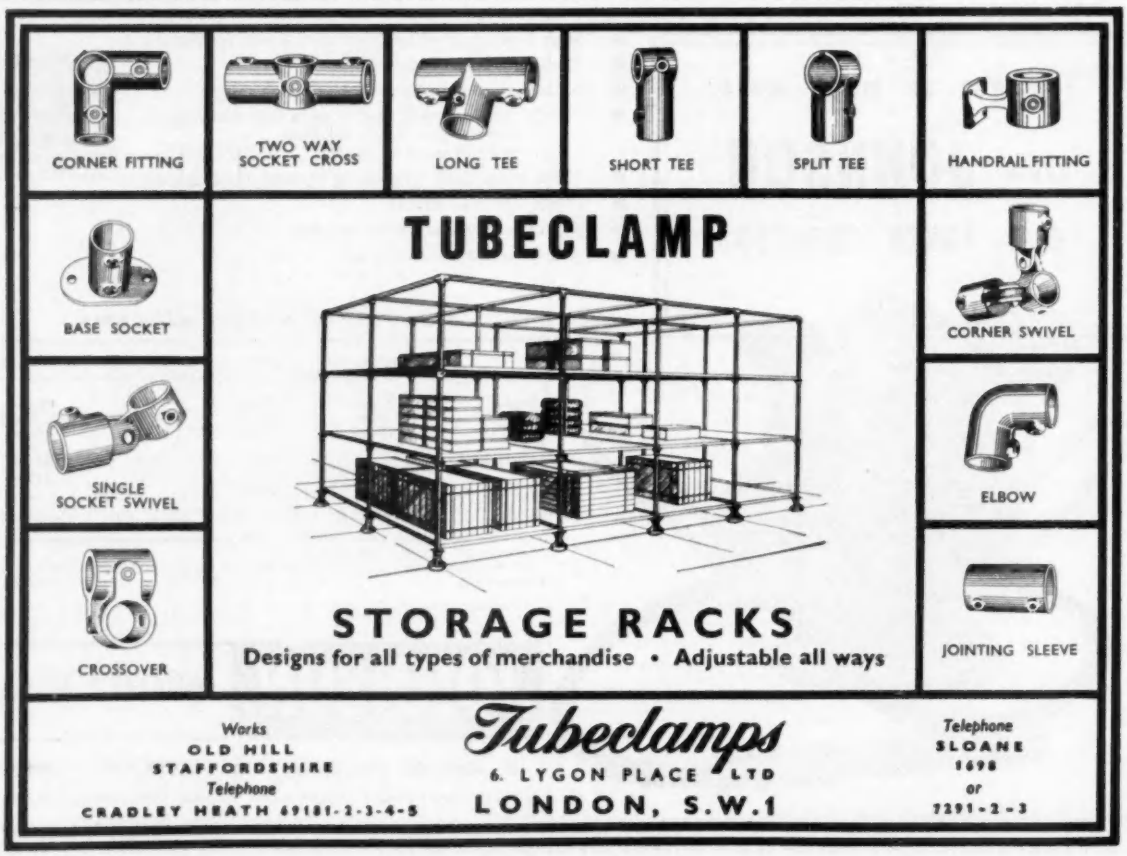

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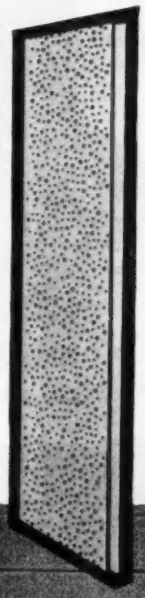

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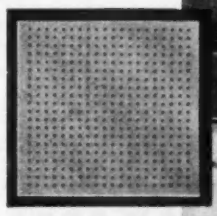

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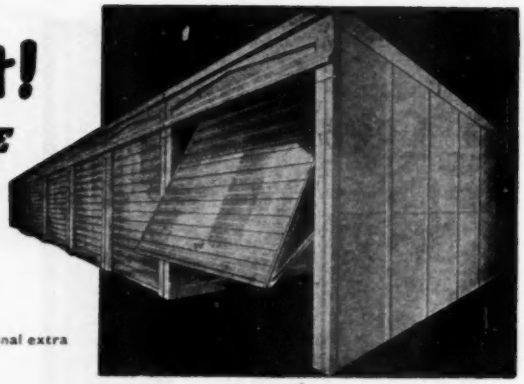

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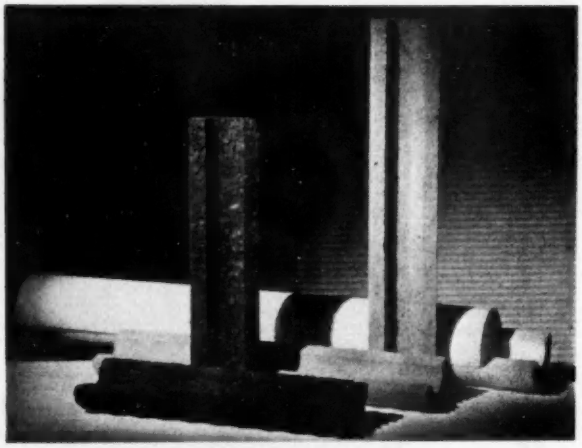

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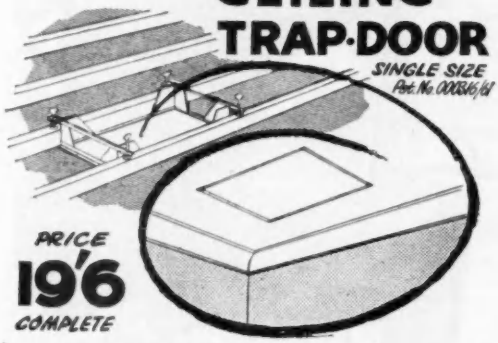

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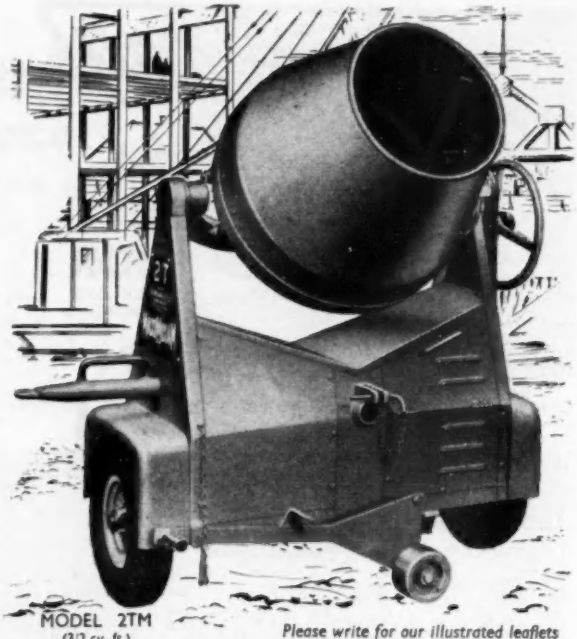

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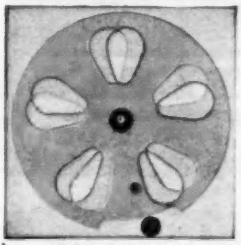

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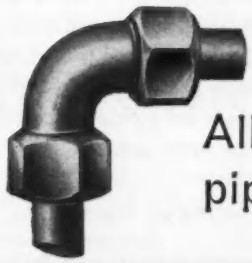

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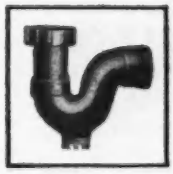

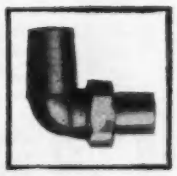

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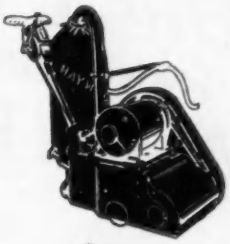

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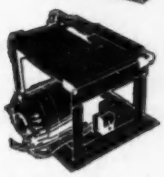

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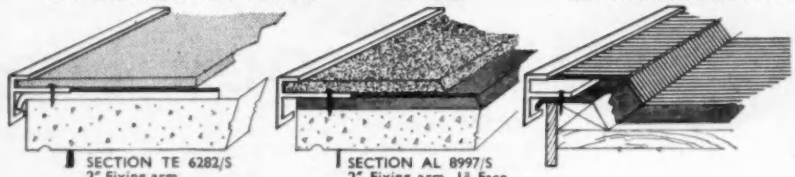

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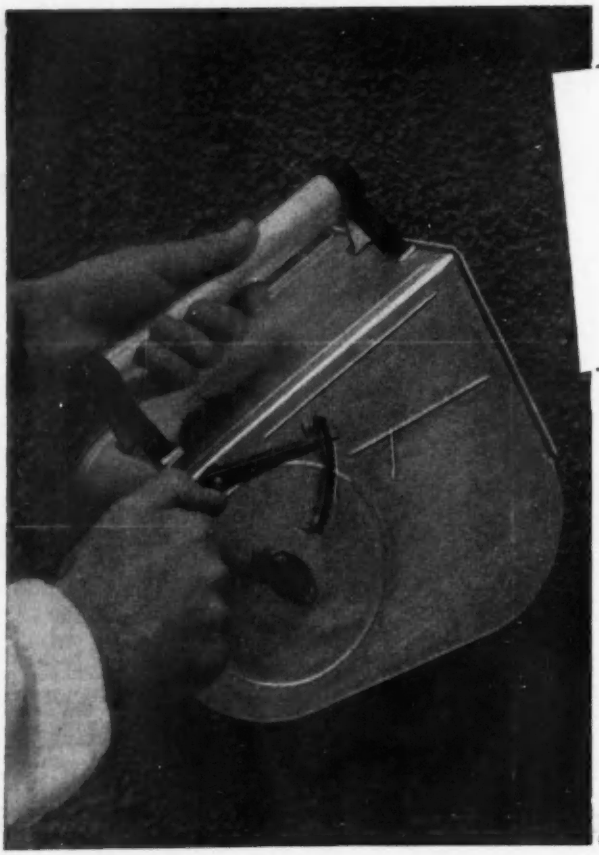

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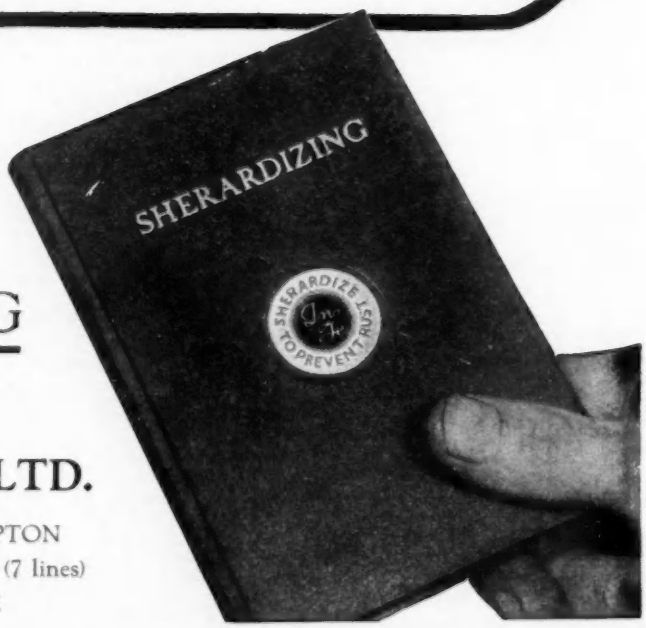


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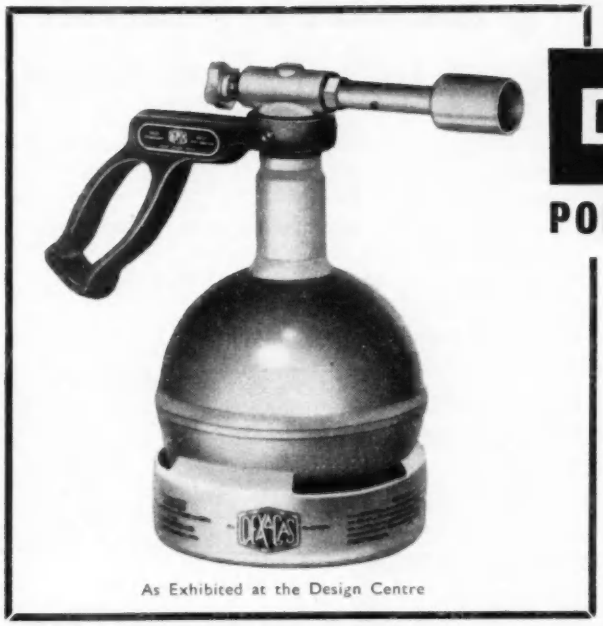

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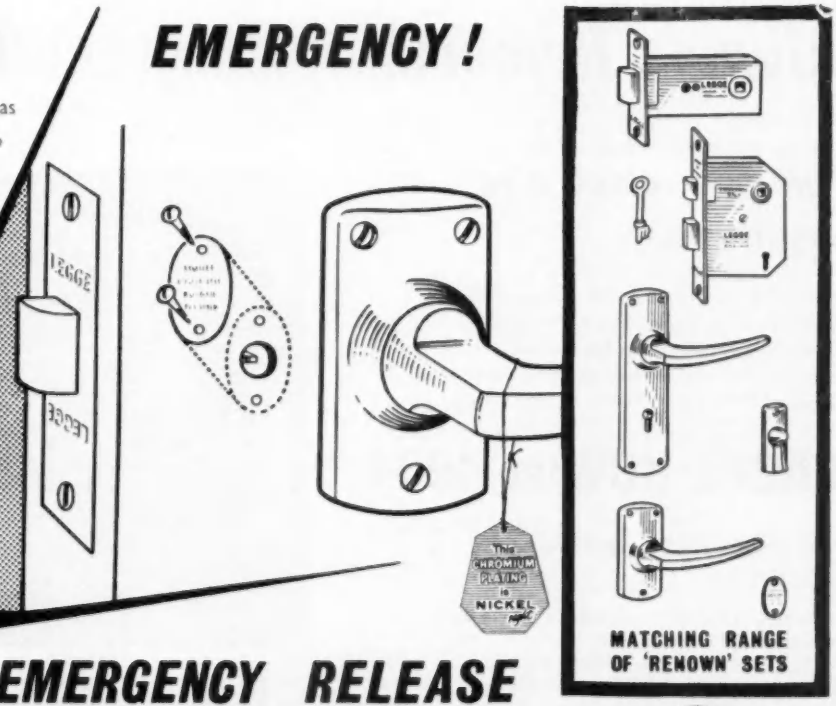


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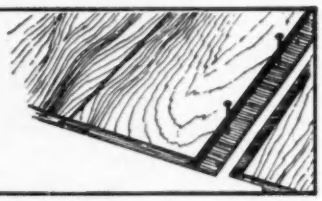

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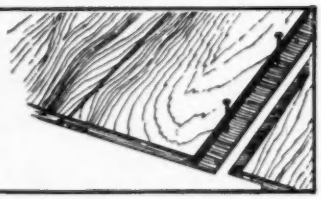

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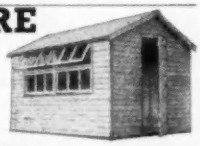

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**BUILDERS' ESTIMATING SURVEYOR** Required near Reading. Experienced in dealing with estimates from enquiry to final account. Must be capable of organising and supervising his own jobs and working on his own initiative.—Reply giving full particulars of experience, references, age and salary required, Box 940, "The Builder."

**SITE MEASURING SURVEYOR** Required for contracts, 25 miles radius Basingstoke, permanent.—Write, giving full particulars, Box 982, "The Builder."

**MEASURING SURVEYOR** Required by Quantity Surveyors', Westminster, for work in the London area. Salary according to qualifications and experience and reviewed regularly. Luncheon vouchers, pension scheme.—Apply, stating age and experience, to Box 936, "The Builder."

**SURVEYOR** Required by London Quantity Surveyors mainly for measuring variations, preparation of interim valuations and final accounts for varied building contracts. Occasional travelling. Salary £900-£1,200 according to ability.—Please write, giving full particulars, to Box 990, "The Builder."

**RESIDENT SURVEYOR** wanted by London Quantity Surveyors for large contract in North West England, duration about three years. Must be very experienced and thoroughly acquainted with Final Account work. Details of experience, age, and salary required, to Box 993, "The Builder."

**SITE MEASURING SURVEYOR** Required for contracts Barnet, North London area. Permanent position.—Write details to Box 933, "The Builder."

**SURVEYOR** Required in Central London C.Q.S. office for site measuring, valuations, accounts, etc. Salary £700, L.V.s, five-day week. Holiday this year.—Box 5656, "The Builder."

RUSH & TOMPKINS LIMITED

**require**

# SENIOR SURVEYORS

with experience of large building and civil engineering contracts to fill vacancies in their expanding Estimating Dept. Excellent salaries will be paid to successful applicants for these progressive positions.

Applications, in writing, to be treated in strict confidence, to:

**The Chief Estimator,**
**Rush & Tompkins Ltd.,**
**109 Station Road, Sidcup, Kent**

# SENIOR LAND SURVEYOR

A rapidly expanding Company of estate developers require the services of an experienced Land Surveyor and Planner to act as Chief Assistant to the Technical Director. Ability to produce imaginative sketch layouts and to negotiate with local authorities is essential. The successful applicant will be expected to undertake survey work if called on to do so, and to carry out administrative duties usually associated with such a position.

Salary by negotiation but not less than £1,000 per annum. Company car provided. Pension scheme in operation. Write giving full particulars to:

**The Technical Director,**
(Engineering & Surveying),
**FEDERATED HOMES LTD.,**
**Federated House,**
**69, East Street,**
**Epsom, Surrey.**

BRYANT

## SENIOR SURVEYOR

If you are intelligent, full of initiative, and wish to be in a progressive organization where your efforts will be appreciated and rewarded, there is an opportunity for you as a Senior Quantity Surveyor.

The position is at our Head Office in Birmingham.

Superannuation, car purchase scheme and assistance with accommodation.

*Please reply giving brief details in first instance to:*

**J. C. Stanton, Chief Surveyor, C. Bryant and Son, Limited, Small Heath, Birmingham, 10.**

## RUSH & TOMPKINS LIMITED

**require**

keen young

# MEASURING SURVEYORS

to train as estimators for positions in a vigorously expanding department. These positions offer first-class salaries and excellent opportunities for advancement.

Applications, in writing, to be treated in strict confidence, to:

**The Chief Estimator,**
**Rush & Tompkins Ltd.,**
**109 Station Road, Sidcup, Kent**

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**KYLE STEWART (CONTRACTORS) LTD.**

require

# SURVEYOR/ESTIMATOR

in department for work up to £30,000 in value. Applicants must be fully experienced in dealing with enquiries, site measuring and final accounts. Participation in Company's Bonus, Pension and Health Schemes and excellent opportunities for advancement. Car provided. Apply in writing stating age, experience and salary required to the

**Managing Director,**
**Kyle Stewart (Contractors) Ltd.,**
**Ardshiel House, Empire Way,**
**Wembley, Middlesex.**

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# SENIOR BONUS SURVEYOR

required by progressive Building Firm in London area.

Salary in region of £1,200 per annum to man possessing right qualifications.

Pension scheme in operation.

Holiday arrangements for this year honoured.

**Box No. 5697 " The Builder"**

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**PLASTERING CONTRACTORS** in South-West London Require experienced MEASURING SURVEYOR. Good salary and permanent pensionable position for suitable applicant.—Write, stating age, experience and present salary, to Box 928, "The Builder."

**MEASURING SURVEYOR** for interim valuations and final accounts Required by London Chartered Quantity Surveyors. Luncheon vouchers and non-contributory pension scheme.—Write, stating age, experience and salary required, to Box 973, "The Builder."

**MAINTENANCE SURVEYOR,** age 22/27, London property company.—Write The Surveyor, Box 949, "The Builder."

**JUNIOR SURVEYOR** Required for progressive S.E. London builders to work under supervision but to use own initiative with a view to ultimately taking over responsibilities. Pension scheme and permanent appointment for suitable applicant. Write stating age, experience and salary required.—S. VARNEY & CO., Ltd., Credon House, Verney-road, S.E.16.

**SURVEYORS** Required by development company for work in their London and South Coast offices. Preferably experienced in material schedules, engagement and negotiation with sub-contractors. Non-contributory pension scheme.—Write giving details and salary expected, to BUNTING ESTATES, Ltd., 73 Acre-lane, London, S.W.2.

**BUILDER'S SURVEYOR** Required by Pipework specialists.—'Phone FELtham 3631 (Managing Director's Secretary) for appointment.

**SITE COST SURVEYOR.** Applications invited from fully-trained Surveyors for important positions on Building and Civil Engineering Contracts in the Midlands area. Applicants should have H.N.C. in building or L.I.O.B. and age range between 26-36 years.—Send full particulars, in confidence, to: Personnel Manager, WILSON LOVATT & SONS, Ltd., Clarence-street, Wolverhampton.

**PLANNING and PROGRESSING** Building and Civil Engineering Contracts. This vacancy calls for a training in the industry to H.N.C. or L.I.O.B. standard, with a full knowledge of B. of Q. specifications and drawings and some site organisation to prepare progress charts and schedules for new contracts.—Applications should state fully age and history, to WILSON LOVATT & SONS, Ltd., Clarence-street, Wolverhampton.

**MEASURING SURVEYOR,** experienced Interim Valuations and Final Accounts. State age, experience and salary required.—Apply by letter to C. CORNES & SON, Ltd., 169 Lichfield-street, Hanley, Stoke-on-Trent.

**BUILDERS' SURVEYOR** Required by medium-size Contractors in Westminster. Must be experienced in Valuations and Final Account work. Excellent opportunity to progress and obtain experience in estimating if desired. Superannuation and bonus schemes in operation.—Write stating age, experience, salary required, etc., to Box 5812, "The Builder."

**TERSONS LIMITED** Require well trained SENIOR SURVEYORS with sound experience on major works, to be resident on multi-million pound projects commencing shortly in the London area. Senior appointments in this progressive Company are offered to suitable applicants. Excellent salaries and opportunities regularly reviewed, bonus and superannuation.—Apply with full details of age, qualifications and experience to The Secretary, TERSONS Ltd., Dollis-park, London, N.3, quoting reference K.C.

**SURVEYOR** with experience of estimating and contract administration. Previous experience in estate house building an advantage. Permanent and pensionable position to suitable applicant.—Box 5825, "The Builder."

**SURVEYOR** for old established firm of Birmingham Builders now domiciled in Knowle, Warwickshire, experienced in measuring and final accounts to completion, to assist Chief Surveyor and with the capacity for accepting responsibility.—Write giving age, details of experience, qualifications and salary expected, Box 5817, "The Builder."

**YOUNG MAN** Required, 20 to 28 years of age, by National Building Contractor as Bonus Surveyor in the Leeds area. Experience in building essential, but not in incentive schemes as training will be given. Must be keen, intelligent and industrious. —Box 5831, "The Builder."

**WESTMINSTER.** Chartered Quantity Surveyors Require MEASURING SURVEYOR with knowledge of the W.D. Schedule for duties in Surrey, Kent and Sussex.—Box 5815, "The Builder."

**BUILDING SURVEYOR/SUPERVISOR** Required for old-established East London Building Contractors. Permanent position and good prospects.—Write, stating age, experience and salary required, to Box 5848, "The Builder."

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# SURVEYOR

required by firm of Building & Civil Engineering Contractors with Head Office in the S.W.1 area. Applicants should have thorough knowledge of their job. Good salary, pension scheme. Please write in first instance to—

**Box No. 5904, "The Builder"**

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# SENIOR BONUS SURVEYORS

required

for large Contracts in London area. Permanent and pensionable positions with remuneration in region of £1,000 p.a.

Apply—

**Box No. 5876, "The Builder"**

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Vacancies exist for

# JUNIOR SURVEYORS and a JUNIOR ASSISTANT

in the Planning Department of a large private enterprise building organisation. ALL posts carry the advantages of employment with such an organisation. Good prospects, day school training, pension scheme, etc. Head Office located in Epsom.

Applicants please apply, giving details of age, experience, etc., to

**Box No. 5806, " The Builder."**

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# SURVEYORS AND ASSISTANT SURVEYORS

required for varied and interesting contracts. Permanent positions, superannuation scheme, 5-day week. Existing holiday arrangements honoured.

Write, stating age, experience and salary required, to:

**Chief Surveyor,**
**WILLIAM MOSS & SONS, LTD.,**
**North Circular Road,**
**Cricklewood, London, N.W.2.**

## SURVEYOR-ESTIMATOR

required on permanent Staff, to work from our Head Office at Ipswich. Applicants with experience in estimating, surveying and contract administration should apply for this Post (which qualifies for participation in our Staff Pension and Bonus Schemes) to: Secretary,

**GEORGE A. KENNEY & SONS LIMITED**

P.O. Box No. 21, Army Works,
Sproughton Road, Ipswich.

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**TOKEN CONSTRUCTION COMPANY LTD.**

require

## MEASURING SURVEYOR

for contracts in the North Midland Area. Knowledge of all trades from initial stages to final account. Position permanent and pensionable. Applicants write, stating age, previous experience and salary required to—

**Personnel Director,**
**68, Mount Street, London, W.1**

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Plastering Contractors require young

## MEASURING SURVEYOR

**for Bonus and Working Up.**

Progressive position for right applicant.
Write stating age and experience.

**J. H. Jenner (Plasterers) Ltd.,**
**179, Hammersmith Grove, W.6**

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## SURVEYOR

for the head office of

**C. J. Sims Ltd.,**
**Building & Civil Engineering Contractors,**
**2 Victoria Street, S.W.1.**

Age 28-35. Applicants must be experienced in all phases of building surveying, from site measuring to preparation of final accounts, including the building up of rates.

Apply in confidence giving age, complete details of training, experience and salary required.

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**THOMAS LOWE & SONS LIMITED**

have a vacancy for a

## BUILDING SURVEYOR

in their Birmingham Office. Must be capable of dealing with interim certificates, bonusing, final accounts, etc., on contracts up to £200,000. Car mileage allowance given, also assistance if necessary in obtaining accommodation. Staff Pension Scheme available after satisfactory probationary period. Applications should be, in the first place, in writing to:

**Gazette Buildings,**
**Corporation Street, Birmingham 4,**

stating age, qualifications and salary required.

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**TOKEN CONSTRUCTION COMPANY LTD.**

require

## BONUS SURVEYORS

for all types of contracts in the London Area. Good salaries paid and all positions are permanent and pensionable. Write, stating age, previous experience and salary required, to—

**Chief Surveyor,**
**68, Mount Street, London, W.1**

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## SURVEYORS AND ASSISTANT SURVEYORS

Experienced in speculative housing development required for position at the Head Office in Potters Bar. The positions offered are progressive, carry good salaries and excellent prospects. Write, stating age, experience, salary required to:

**The Chief Surveyor,**
**McMANUS & CO. LTD.,**
**Orchard House,**
**Potters Bar, Middlesex.**

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**A. J. WAIT & CO. LTD.,**

require

## SENIOR & ASSISTANT SURVEYORS

for interesting Contracts in the London and Home Counties area. Salary commensurate with ability, bonus scheme, pension scheme. Permanency and prospects for the right applicants. Apply in writing, stating age, training, experience and salary required, to :

**Chief Surveyor,**
**"Five Star,"**
**Kingston Road, New Malden, Surrey.**

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**MEASURING SURVEYORS,** both Junior and Senior. Required by Chartered Quantity Surveyors for Site office near Oxford. Experience in mechanical and electrical work an advantage.—Write, giving brief particulars and salary required, to Box 5859, "The Builder."

**THE CO-OPERATIVE WHOLESALE SOCIETY, Ltd.,** Require for their Estate Department in Manchester, an experienced TECHNICAL ASSISTANT (Building Inspector), able to prepare specifications and estimates for the repair and maintenance of all types of farm and agricultural buildings. This position will involve a considerable amount of travelling.—Applications, stating age, experience, and present salary, should be submitted to: CO-OPERATIVE WHOLESALE SOCIETY, Ltd., Central Labour Department, 1 Balloon-street, Manchester 4.

**BUILDERS' SURVEYOR** Required for medium-sized Builders' office, Mitcham. All-round man needed. Conversant with estimating, administration of jobs, preparation of accounts. Salary £800/£900.—Box 5894, "The Builder."

**SURVEYORS** Required by London Chartered Quantity Surveyors for measurement and settlement of final accounts. Good salary, luncheon vouchers and pension scheme. Five-day week.—Apply, stating experience, to Box 5908, "The Builder."

**PLANNING AND BONUS SURVEYOR** Required, to start new department in established London contractors' office. Excellent opportunity for experienced assistant. Age 27-34 preferred. B.A.S. course an advantage. Good salary and bonus. Pension scheme available. Car provided.—Reply to COURTNEY & FAIRBAIRN, Ltd., 377 Albany-road, Camberwell, S.E.5.

**MEASURING SURVEYORS,** preferably A.R.I.C.S., Required by London firm of Quantity Surveyors. Permanent positions with good prospects. Salary £1,500 per annum. Five-day week. Pension and Life Assurance Scheme. Car provided.—Write, stating age and experience, to Box 5899, "The Builder."

**ASSISTANT BUILDING SURVEYOR** Required for Surveyors and Land Agents. Efficient in Struct. Surveys, plans, specifications and dilaps.—Apply, GEERING & COLYER, 24 High-street, Tunbridge Wells.

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## SURVEYOR

For Site measuring valuations, operating bonus scheme and preparing material schedules.

Housing Contract, East London, 3½ years' duration.

APPLY:

**W. J. JERRAM LIMITED**
**SANDFORD WORKS**
**EAST HAM.**

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## COST AND BONUS SURVEYOR

Required for London area building contracts. Must be fully conversant in measuring all trades.

Apply giving details of age, experience etc. to:

**Box No. 5715, 'The Builder'**

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**LESLIE & CO. LTD.**

require a

## SURVEYOR

for senior position in the Production Control Department. Must be capable of operating existing bonus scheme. Knowledge of contract costing an advantage. Keenness and initiative essential.

Apply : *Secretary,*

**LESLIE & CO. LTD.,**
**Peel Street, London, W.8.**

## SENIOR SURVEYOR

required by London Contractors, initially for contract in Home Counties.

Permanent position with excellent prospects. Holiday commitments honoured.

Apply in writing, stating age, qualifications and experience, to :

**Box No. 5785, "The Builder."**

## ASSISTANT SURVEYORS

**ASSISTANT BUILDING SURVEYOR** Required in office of Chartered Surveyors with extensive London management and general building work.—Box 5856, "The Builder."

**ASSISTANT SURVEYOR** Required by medium-size Building Contractors. Good prospects for keen man. H.D.D. or H.N.C. holder studying for Institute of Builders' Diploma preferred. Work in London area. Holiday arrangements honoured.—Write, stating age, experience, and salary required, the Secretary, C. P. ROBERTS & CO., Ltd., 31 High Holborn, W.C.1.

## ASSISTANT SURVEYOR

required by London Building Contractor. Applicants should be capable of measuring and agreeing Sub-Contractors accounts, measuring Variation Orders, and preparing Valuations.

Apply stating age, experience, and salary required to:

**Messrs. Griggs & Son Ltd.,**
**56, Victoria Street,**
**Westminster,**
**London, S.W.1.**

**SENIOR AND JUNIOR ASSISTANT SURVEYORS** Required. Knowledge Interim Valuations and Measuring Sub-Contractors. Progressive position and own pension scheme operative. Existing holiday arrangements honoured.—Reply, stating age, experience and salary required, to The Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

**CHARTERED SURVEYOR ASSISTANT** Required by West End professional firm. Must be capable of carrying out structural surveys and writing reports, schedules of dilapidations; supervising general maintenance repairs on estates and carrying through conversion schemes, etc. Salary range £1,200-£1,500. Three weeks' annual holiday.—Write giving qualifications and experience, to Box 5807, "The Builder."

**CHARTERED BUILDING SURVEYOR** in Guildford requires ASSISTANT. Some previous building and surveying experience desirable. Good training given to a young man who is taking the professional examinations.—Write with details to MESSRS. MESSENGER MORGAN & MAY, 8 Quarry-street, Guildford.

**ASSISTANT SUPERVISING SURVEYORS** Required by progressive building contracting company, Weybridge, Surrey. Not more than 30 years of age. Excellent opportunities to men with initiative. —Full particulars to Box 5861, "The Builder."

## ASSISTANT SURVEYOR

**required**

for the head office of Building & Civil Engineering Contractors in Westminster. Age 20-25. Applicants must be experienced in all phases of building surveying, from site measuring to assisting with preparation of final accounts. Apply, in confidence, giving age, complete details of training, experience and salary required to:

**C. J. Sims Ltd.,**
**2 Victoria Street, S.W.1.**

## TERSONS LIMITED

require

## ASSISTANT SURVEYORS

in the Staines area

Applicants are offered excellent opportunities to widen their experience, with good salaries, regularly reviewed, together with bonus and superannuation benefits after probationary period. Holiday arrangements accepted.

Apply with full details of age, qualifications and experience to **The Secretary, Tersons Ltd., Dollis Park, Finchley, N.3,** quoting reference H.D.

## HUMPHREYS LIMITED

**Building and Civil Engineering Contractors**

require

## TRAINEES IN SURVEYING

Young men 16—18 with not less than five subjects at 'O' level G.C.E. who wish to enter the building and civil engineering industry are offered the opportunity of training in all branches of Surveying. Good salary and conditions and assisted tuition schemes. School leavers at the end of the Summer term are particularly invited to apply for an early interview.

*Apply in writing to:—*

**Personnel Department,**
**199, Knightsbridge, London, S.W.7.**

## ASSISTANT SURVEYOR

required in West Middlesex area. Applicant must be experienced in all phases of surveying and in agreeing final accounts. Opportunity to understudy Estimator. Full details to—

**Box No. 5889, "The Builder"**

## ASSISTANT SURVEYOR

East London Building Contractors. For site measuring, valuations, etc. Medium size Contracts. Permanency and pension for suitable applicant. Car or allowance provided. Salary commensurate with ability.

Apply **Box No. 5382, "The Builder"**

**ASSISTANT SURVEYOR,** experienced in speculative housing development. Required for position at the head office in Potters Bar. The position offered is progressive, carries a good salary and excellent prospects.—Write, stating age, experience and salary required, to the Chief Surveyor, McMANUS & CO., Ltd., Orchard House, Potters Bar, Middlesex.

## JUNIORS

**JUNIOR TRAINEE QUANTITY SURVEYOR** Required by Westminster Quantity Surveyors.—Write, giving particulars, to Box 958, "The Builder."

**AN** opportunity for a young man aged 18/19 who has aptitude for figures, for the position of ASSISTANT in Measuring and Cost Department of Wall and Floor Tiling Specialists.—Applications, in writing, to Mr. L. E. Pull, A. H. HERBERT & CO., Ltd., 154 Blackhorse-road, Walthamstow, E.17.

**YOUNG MAN** Required in West End office as trainee Quantity Surveyor. Good educational standard essential. Excellent prospects.—All particulars, Box 5915, "The Builder."

## YOUTH

**required as trainee in**
**Contracting department.**

Good educational standard essential. Excellent prospects. Please apply in writing to—

*Secretary,*
**Permanite Limited,**
**455, Old Ford Road, Bow, E.3.**

## TAKERS OFF

**TAKERS-OFF,** Final standard, Required by Quantity Surveyors, Westminster. Good salary, luncheon vouchers. No Saturdays.—Apply, Box 929, "The Builder."

**SENIOR TAKER-OFF** for responsible position in busy Quantity Surveyors' office. Westminster. Salary commensurate with responsibility. Luncheon vouchers, pension scheme.—Brief details to Box 931, "The Builder."

**TAKERS-OFF** Required in Chartered Quantity Surveyors' office on work which is varied in nature. Good salaries will be paid to persons who will maintain the high professional standard of the office. Luncheon vouchers, pension and life insurance schemes in operation.—Apply by telephone, Chancery 5841, Reference S.D.M., or in writing, to Box 910, "The Builder."

**TAKERS-OFF and MEASURING SURVEYORS** Required by London Chartered Quantity Surveyors. Luncheon vouchers and non-contributory pension scheme.—Write, stating age, experience and salary required, to Box 977, "The Builder."

**EXPERIENCED TAKERS-OFF** Required for professional offices in the East Croydon area. Salary according to qualifications and experience. Luncheon vouchers. Contributory pension scheme.—Apply, with brief details, to Box 921, "The Builder."

**LONDON** firm of Chartered Quantity Surveyors Require fully qualified SENIOR TAKER-OFF. Please give full particulars and state salary required. —Box 5613, "The Builder."

**JUNIOR TAKERS-OFF** Required by Chartered Quantity Surveyors near Victoria Station. Excellent opportunities for advancement. Two weeks' holiday this year.—Write, giving age, experience and salary required, to Box 5766, "The Builder."

**JUNIOR TAKER-OFF** Required, with minimum of one year's Taking-off experience. Opportunity for advancement in new practice.—Please write, stating age, experience and salary required, to BISHTON AND DOREE, Chartered Quantity Surveyors, 4 Sheet-street, Windsor, Berks.

**LONDON** firm of Chartered Quantity Surveyors Require a SENIOR ASSISTANT for a permanent position with a high level of remuneration. Luncheon vouchers and pension scheme.—Please apply, giving details of age, experience and salary required, to Box 5759, "The Builder."

WATES build

## WATES LTD.

have the following vacancies

## TAKER-OFF

An experienced man is preferred but the opportunity exists for a QUANTITY SURVEYOR to enter the Company to enjoy a limited period on taking-off with every prospect of moving to other surveying or estimating activities on a wide variety of work.

## COST SURVEYOR

Duties comprise forecasting and maintenance of labour cost control on a number of interesting London sites, together with the supervision of site cost clerks. Head Office appointment. This is a permanent and superannuable position with good salary, bonus and other staff benefits. Holiday arrangements honoured.

Write giving full details of age, experience and present salary to Personnel Manager,
**1260 London Road, Norbury, S.W.16.**

**SENIOR ASSISTANT** Required by London firm of Chartered Quantity Surveyors. Salary up to £1,700 per annum, according to age and experience. Luncheon vouchers and pension scheme.—Please apply to Box 5760, "The Builder."

**JUNIOR TAKER-OFF** Required by London firm of Chartered Quantity Surveyors. Salary £750-£1,000 for five-day week. Luncheon vouchers, overtime payments and pension scheme.—Please apply, stating age and experience, to Box 5761, "The Builder."

**TAKER-OFF** of Intermediate to Final standard Required, Chartered Quantity Surveyors, Newbury. Salary £700-£800.—Apply in own handwriting stating age and experience to Box 5745, "The Builder."

**A. S. WILSON AND PARTNERS,** Chartered Quantity Surveyors, Require TAKERS-OFF and WORKERS-UP in London and Provincial branches.—Apply, stating experience, to 8 Storey's-gate, Westminster, S.W.1.

**TAKERS-OFF** Required by Chartered Quantity Surveyors in Westminster. Permanent position. Five-day week, luncheon vouchers, pension and Life Assurance scheme. Holiday this year.—Please write, Box 5787, "The Builder."

**APPLICATIONS** are invited by small firm of Chartered Quantity Surveyors (London) for the following posts: (1) SENIOR TAKER-OFF to take charge of section. Must be willing to accept responsibility. (2) TAKER-OFF (R.I.C.S. finals standard). This post also offers scope for pricing contracts through all stages including final accounts. Please write, giving details of previous experience.—Box 5733, "The Builder."

**JUNIOR TAKER-OFF and SITE MEASURER** with experience Required by Sussex C.Q.S. Five-day week. Write stating age, experience and salary required.—Box 5707, "The Builder."

**JUNIOR TAKER-OFF,** of Intermediate standard, Required by Birmingham Chartered Quantity Surveyors.—Apply, stating age, experience and salary required, to HARRIS, ROURKE & SIMPSON, 191, Corporation-street, Birmingham, 4.

**CHARTERED QUANTITY SURVEYORS** Require JUNIOR TAKER-OFF for Rochester office. Five-day week. Reply stating age, experience and salary required.—Box 5626, "The Builder."

**CHARTERED QUANTITY SURVEYORS** near Victoria station Require qualified TAKER-OFF to work mainly on estimating and cost planning for varied and interesting projects. Permanent appointment with Superannuation scheme. Luncheon vouchers. High salary offered with six-monthly reviews.—Write full particulars to Box 5684, "The Builder."

## SUNLEY

require a

## SENIOR TAKER-OFF SURVEYOR

to be based at their Hemel Hempstead Offices. This is a senior and permanent appointment with a large and expanding National Building Contracting organisation where the prospects are exceptional. Assistance with housing will be given if necessary and salary will be commensurate with experience and ability.

Applications to

**Chief Surveyor,**
**Sunley Works,**
**Maylands Avenue,**
**Hemel Hempstead. Herts.**

**JUNIOR TAKERS-OFF** and MEASURING SURVEYORS Required by firm of Chartered Quantity Surveyors in the North Midlands to work at head office or branch offices at Stafford or Banbury. Salary according to experience. Five-day week. Participation in non-contributory pension scheme after period of satisfactory service, in addition to the state scheme.—Apply, giving full particulars and salary required, to Box 5670, "The Builder."

**JUNIOR TAKER-OFF** with at least three years' experience Required by S.W.1 firm of Chartered Quantity Surveyors. Varied and interesting projects. Superannuation scheme, luncheon vouchers.—Write full particulars and salary required to Box 5685, "The Builder."

**SENIOR TAKER-OFF** Required by Chartered Quantity Surveyors North Kent area. Salary commensurate with experience. Five-day week. Car driver preferred.—Reply Box 5625, "The Builder."

**EXPERIENCED TAKER-OFF** (preferably A.R.I.C.S.) Required in small London office of Chartered Quantity Surveyors. Salary £1,300-£1,500 according to experience and ability. Good prospects.—Details age and experience to Box 5912, "The Builder."

**JUNIOR TAKER-OFF** Required in busy W.1 office. Good prospects and opportunities for experience and advancement. Overtime, luncheon vouchers. Holiday arrangements honoured.—All particulars, Box 5913, "The Builder."

**TAKING-OFF ASSISTANT** Required to assist in preparation of materials schedules. Modern offices, 5-day week, L.V. scheme. Holiday this year. Salary reviewed annually.—Please apply stating experience and salary to PERCY BILTON Ltd., Housing Division, Bilton House, 54-58 Uxbridge-road, Ealing, W.5.

**SENIOR TAKER-OFF** Required by a small London chartered firm, having varied practice, who consider enthusiasm and ability more important than salary paid. Ambitious men, willing to take advantage of the prospects offered, should write, stating age, professional experience and when available for interview to Box 5824, "The Builder."

**PRESTON, LANCASHIRE.** A. S. WILSON AND PARTNERS, Chartered Quantity Surveyors Require TAKERS-OFF and WORKERS-UP.—Apply 8 Storey's-gate, Westminster, S.W.1.

**MEDIUM-SIZED** firm of Chartered Quantity Surveyors in Victoria-street, S.W.1, would like to interview qualified SURVEYORS for permanent positions.—Write, Box 5843, "The Builder."

**CHARTERED QUANTITY SURVEYORS** in Newcastle upon Tyne Require ASSISTANTS for Taking-off Bills of Quantities, preparing Valuations for Certificates, measuring Variations and settling Final Accounts.—Box 5842, "The Builder."

**CHARTERED QUANTITY SURVEYORS,** W.C.2, with medium-sized practice, Require TAKER-OFF, A.R.I.C.S., capable of accepting responsibility for all stages of professional practice with minimum eight years' experience. Salary in the region of £1,800 per annum with security and prospects for suitable applicant.—Please write, Box 5863, "The Builder."

**TAKER-OFF** Required (Inter. standard) by Chartered Quantity Surveyors in Oxford. Good opportunities for a keen man. Five-day week, luncheon vouchers, pension scheme.—Reply, giving brief particulars and salary required, to Box 5860, "The Builder."

**TAKER-OFF** (A.R.I.C.S.), 30-35 years old, to work with partner of small firm of W.1 Surveyors with varied and interesting practice. Bonus paid at Christmas and mid-Summer.—Please reply, stating salary required, to Box 5865, "The Builder."

**JUNIOR TAKER-OFF** Required by Peterborough firm of Quantity Surveyors. Good experience with progressive firm.—Replies, stating age, experience and salary required, to Box 5868, "The Builder."

**JUNIOR TAKER-OFF** Required by London firm of Quantity Surveyors. Good experience with progressive firm.—Replies, stating age, experience and salary required, to Box 5869, "The Builder."

**V. B. JOHNSON & PARTNERS** of Watford Require experienced TAKERS-OFF, preferably A.R.I.C.S. Good salary according to experience (with bonus this can exceed £1,500 per annum). Overtime at increased rate. Non-contributory Supplementary Pension and Life Assurance scheme. Five-day week. Holiday arrangements honoured this year.—Apply, stating age and experience, to V. B. JOHNSON & PARTNERS, Chartered Quantity Surveyors, Leet-court, King-street, Watford, Herts.

**JUNIOR TAKERS-OFF** and TAKERS-OFF Required at once in City office of Chartered Quantity Surveyor. Progressive salary, overtime, luncheon vouchers and scope for advancement.—Box 5901, "The Builder."

## TAKER-OFF

required by progressive London Contractors. Permanent position with excellent prospects. Holiday commitments honoured. Apply in writing, stating age, qualifications and experience, to :

**Box No. 5786, "The Builder."**

## TAKER OFF

offered

**£1,200 to £1,500**

according to ability

Annual salary review, good prospects for hard worker with quick modern approach to quantities. Write in confidence giving past experience and present salary, to—

**Box No. 5829, "The Builder"**

## WORKERS UP

**WORKERS-UP** Required by London Chartered Quantity Surveyors for permanent staff. Luncheon vouchers.—Write, stating age, experience and salary required, to Box 979, "The Builder."

**SENIOR WORKER-UP** Required by Chartered Surveyors, Westminster, to take charge.—State experience, age and salary required, to Box 5502, "The Builder."

**JUNIOR WORKER-UP** Required in Central London C.Q.S. office. Salary £600-£700, L.V.s, five-day week. Holiday this year.—Box 5657, "The Builder."

**CHARTERED QUANTITY SURVEYORS** with West End practice offer post giving maximum opportunity for progress and advancement to WORKER-UP with at least 3 years' experience.—Telephone for interview HYD 5522.

**WORKER-UP** Required by Chartered Quantity Surveyors near Victoria Station. Good salary. Luncheon vouchers, superannuation scheme; holiday this year.—Box 5615, "The Builder."

**WORKER-UP,** approaching intermediate standard, who wishes to start site measurement. Small office in London, near Liverpool Street Station. Salary £400-£600 plus bonus.—Box 5596, "The Builder."

**£900 to £1,150 dependent on experience**

**offered to**

## WORKER UP

Annual salary review, good promotional prospects. Possibilities of advancement to

## TAKER OFF or SITE SURVEYING

dependent on ability. Write in confidence giving details of experience and present salary to

**Box No. 5827, "The Builder"**

## CO-OPERATIVE WHOLESALE SOCIETY LIMITED

**ARCHITECT'S DEPARTMENT, MANCHESTER**

have a vacancy in the Quantity Surveyors Section for a permanent

## WORKER-UP

Five-day week. 3 weeks' holiday. [Pension Scheme. Apply in writing with details of age, experience and salary required to:—

**G. S. Hay, F.R.I.B.A.,**
**Chief Architect,**
**Co-operative Wholesale Soc., Ltd.,**
**1, Balloon Street, Manchester 4**

## QUANTITY SURVEYING ASSISTANTS

Vacancies exist for

## TWO WORKERS-UP

having not less than three years' experience in a professional office.

Duties will involve abstracting, billing, some work on final accounts and specification writing.

Salary within the range of £585/785 per annum.

Five day week, time off for recognised course of study.

The posts are superannuable, subject to medical examination.

Applications stating training, age and experience to:—

**R. C. STEEL, A.R.I.B.A.,**
**Chief Architect,**

**Co-operative Wholesale Society Ltd.**
**99, Leman Street,**
**London, E.1.**

**CHARTERED QUANTITY SURVEYORS** Require WORKER-UP for long-term contract at Newport, Mon.—Please write, stating age, experience and salary required, to Box 5762, "The Builder."

**LONDON** firm of Chartered Quantity Surveyors have vacancy for **WORKER-UP**. Permanent position, luncheon vouchers, pension scheme, overtime paid. —Please write, stating age, experience and salary required, to Box 5763, "The Builder."

**TEMPORARY** full-time, experienced **WORKER-UP** Required for 2 to 3 months by City office, 12/- per hour. Unlimited hours may be worked.—Box 5742, "The Builder."

**WORKER-UP** Required by Quantity Surveyor's Dept. of major London industrial concern. Interesting work and good prospects. Salary by arrangement.—Box 5701, "The Builder."

**SITE CIVIL ENGINEERS/SURVEYORS.** We invite applications from young men trained and with experience on several contracts in successfully setting out for buildings, foundations, and external services, etc., for several interesting building contracts. Good terms and conditions will be offered with prospects for rapid promotion in return for accuracy, keenness and initiative.—Apply to, WILSON LOVATT & SONS, Ltd., Clarence-street, Wolverhampton.

**WORKERS-UP** Required in busy W.1 office. Good prospects and opportunities for experience and advancement. Overtime, luncheon vouchers. Holiday arrangements honoured.—All particulars, Box 5914, "The Builder."

**INTERMEDIATE** standard ASSISTANT Required by Chartered Quantity Surveyors to do Working-up, Junior Taking-off and Site Measuring. Salary according to experience and qualifications.—Full details to REYNOLDS & YOUNG, 191 Corporation-street, Birmingham 4.

**WORKER-UP,** with 2-3 years' experience, willing to work up for a further 2 years for a small firm of W.1 Surveyors, with varied and interesting practice. Bonus paid at Christmas and mid-Summer.—Please reply, stating salary required, to Box 5866, "The Builder."

**EXPERIENCED WORKER-UP,** also JUNIOR, Required by London firm of Chartered Quantity Surveyors in Bloomsbury district.—Please reply, stating age, details of experience, and salary required, to Box 5855, "The Builder."

**WORKER-UP,** Junior or intermediate standard, Required in small busy professional office in the City. Permanent position, with opportunities for advancement.—'Phone: MONarch 0597.

**WORKER-UP,** with some experience. Required for small chartered practice in West End. Possibility of site measuring and eventually taking-off. Variety of small and large contracts.—Box 5887, "The Builder."

## ESTIMATORS

**ESTIMATOR/SURVEYOR** Required by old-established Building company for contracts up to £50,000, in London and greater London area.—Apply, giving full particulars of experience, age and salary required, to Box 5703, "The Builder."

**QUALIFIED ESTIMATOR** Required in Norwich Head Office of medium-sized Civil Engineering Contractors. Must be experienced in all branches and capable of planning project at tender stage. A permanent, pensionable position.—Write with full particulars of experience and qualifications, and stating salary required, to MAY, GURNEY & CO., Ltd., Trowse, Norwich.

**ESTIMATOR/SURVEYOR** for general duties. Small company. Estimating of small works in all trades, also valuations, ordering, etc., for larger contracts. Progressive position for capable man.—Write, stating age, experience, qualifications, salary required, to SKINNER & CAMPBELL, Ltd., Oakwood, Southgate, N.14.

## RUSH & TOMPKINS LIMITED

**require a**

## SENIOR ESTIMATOR

Applications are invited from experienced men capable of estimating for building and civil engineering projects of £500,000 and over. This senior position carries an excellent salary and other benefits.

Applications, in writing, to be treated in strict confidence, to:

**The Chief Estimator,**
**Rush & Tompkins Ltd.,**
**109 Station Road, Sidcup, Kent**

## WHITE ALLOM LIMITED

*Invite applications from suitably qualified men for the following positions*

*ESTIMATING SURVEYOR.* Age 35-45. Ability to Estimate for joinery work imperative. Ship work experience preferable though not essential.

*MANAGING FOREMAN.* Age 35-45. Candidates should be Joiners by Trade and should have first class experience of West End Work embodying all trades for alteration work. The successful candidate will be a man capable of controlling several jobs each having a value of £30,000/£40,000.

*DRAUGHTSMAN.* Must be experienced in interior design, particularly in prepared detailed drawings of good class work. Age no barrier. Excellent prospects for suitable candidate.

*LEADING JOINERS* for promotion to Site Foreman. Age 30-40. Ideal candidates will be skilled Joiners experienced in high class work, who have been leading hands and are now seeking situation as Site Foreman on alteration and decoration jobs valued up to £10,000.

Salary will be by arrangement and according to age and experience. Conditions of employment are excellent and include Pension Facilities and generous Sick Pay Scheme. Existing holiday arrangements will be honoured.

Applications giving full details of age, experience, qualifications and career to date should be addressed to

**The Manager,**
**White Allom Limited,**
**29/30 Old Burlington Street, London, W.1.**

**SENIOR ESTIMATOR** Required by Building Contractors whose head office is near Guildford. Applicants, who should be fully experienced, are invited to send full details of age, experience and qualifications, in confidence, to Box 909, "The Builder."

**JUNIOR ASSISTANTS** for Estimating Department. —Apply in writing, or telephone MESSRS. A. ROBERTS & Co., Ltd., 79 Eccleston-square, S.W.1 (Telephone: VIC. 9161).

**SHOPFITTING ESTIMATORS** Required. Permanent progressive positions for experienced Senior and Junior Estimators with expanding Public Company. Five day week. Profit sharing scheme in operation.—Apply in writing, stating age, experience and salary required to Managing Director, HICKMAN, Ltd., North Circular road, N.W.2.

**BUILDING ESTIMATOR** Required for old-established East London Building Contractors. Permanent position with good prospects.—Write, stating age, experience and salary required, Box 5847, "The Builder."

**ESTIMATOR/MANAGER** Required. Fully experienced in alteration and conversion work, to take charge of new department operating in London area.—Replies, in writing, giving fullest particulars and salary required, to STIRTON PARTNERS, Ltd., 28 Victoria-street, London, S.W.1.

## GALBRAITH BROS. LTD.

require a

## SENIOR BUILDERS' ESTIMATOR & SURVEYOR

Excellent opportunities and well paid position to fully capable man. All types and sizes of contract.

Apply (in writing):
**The Managing Director,**
**Crayford Bridge,**
**Crayford, Kent**

## ESTIMATOR

required by

**Asphalt & Felt Roofing Contractors**

Previous experience an advantage but not essential. Good prospects. Please write stating age and salary required to Secretary,

**Permanite Limited,**
**455, Old Ford Road, Bow, E.3**
or telephone Mr. A. V. Barber ADV 4477

## ESTIMATOR

required immediately. Fully experienced for major building works. The appointment is permanent, pensionable and will carry a good salary. Applicants should give brief details of personal history to—

**F. Defty, Kirk & Kirk, Ltd., Atlas Works, Putney, S.W.15.**

# ASSISTANT ESTIMATORS

with intelligence and initiative required for London Office to work on wide variety of interesting schemes.

Promotion to senior positions within the organisation is encouraged and substantial salary, subject to annual review is offered together with a subsidised luncheon scheme.

A five day week is normally worked and two weeks holiday in the Summer and one week at Christmas is granted.

Applications, stating brief details of experience and salary required, should be addressed to:

**Mr. T. Appleton, F.I.Q.S., A.I.O.B.,**
**SIR ROBERT McALPINE & SONS LTD.,**
**16-19, Gresse Street, London, W.1.**

## Chief Joinery Estimator

required for trade works located London, E.16. Main production purpose-made joinery for houses and flats. Age 30-36. Salary according to age and experience. **Box No. 5898 "The Builder."**

## ESTIMATOR

required by firm of National Contractors. Applicants should be capable of pricing enquiries up to approximately £500,000 in value. Permanent and pensionable position with good salary. Write giving details of experience, etc., to:

**Box No. 5905, "The Builder"**

## ESTIMATOR/SURVEYOR (PAINTING)

With ambition and experience of decorating and painting contracts required for the London Office of W. J. Brooker Limited.

Top salary, Pension Scheme, and holiday this year.

Write to:

**28 Westminster Bridge Road,**
**London, S.E.1**
Ref.: ADH

Applications are invited for the position of

## ESTIMATOR

in a specialised department of a major building and civil engineering contractor. Applicants should have some knowledge of timber partitioning and must be capable of building up prices and evaluating labour costs.

The position offers an excellent opportunity to join an expanding section of an international group and provides scope for advancement.

Please send full details with indication of salary required to **Box No. AE 5259, A.K. Advg., 212a Shaftesbury Ave., London, W.C.2.**

J. M. JONES & SONS LTD.

**require**

## ESTIMATORS

These are additional Senior appointments and include Small Works Department and Major Contracts. Staff Pension and Life Assurance Schemes. Assistance with housing if necessary. Apply, with details of age, education, training, qualifications if any, to the Secretary:

**J. M. Jones & Sons Ltd.,**
**Highway Works, Maidenhead.**

**ESTIMATOR WANTED.** Senior Assistant to Chief Estimator Required in national builder's office operating from Leicester, mainly housing. Must have previous experience.—Please write in first instance, giving full details, to DRURY & CO., Ltd., The Grange, Wigston Fields, Leicester.

**ESTIMATOR** Required by Building Contractors. Offices in Beckenham area. Applicants should be fully experienced.—Write, giving full details of age, experience and salary required, Box 5849, "The Builder."

## MANAGERS

**BUILDING CONTRACTORS,** offices Brighton. Require fully experienced CONTRACTS MANAGER, housing and flat contracts.—Apply, giving full particulars of past experience, Box 962, "The Builder."

**ASSISTANT TO MANAGER.** An excellent opportunity is offered to a young man by a firm of Builders and Decorators in the West End of London. A knowledge of estimating and preparing accounts for alterations, decorations and jobbing work is required.—Write stating age, experience and salary required, to Box 905, "The Builder."

**JOINERY MANAGER** Required for medium-sized builders in South East London. Required to do setting-out. Mainly first-class work. Drive and initiative essential.—Write for interview, stating age, experience and salary required, to Box 5767, "The Builder."

## WORKS MANAGER

### REQUIRED

Fully experienced, capable of taking full responsibility and achieving economic completion. The work covers all aspects of the Building Industry. Annual output £140,000. Staff 100.

**Salary : £1,495.**
**Superannuation.**
**Three weeks' annual holiday.**
**Generous sickness payment.**

Written applications on special form to be obtained from and on completion returned to :—

**Secretary and Executive Officer,**

**YORK CO-OPERATIVE SOCIETY LTD.,**
**22, Railway Street,**
**York.**

Closing date : 1st July, 1961.

## SHOPFITTING:

**Established Company of Provincial Shopfitters invite applications for a Managerial position**

Candidates should possess a first class knowledge in all aspects of the industry, in design, with the practical knowledge of construction, including estimating and costing.

The appointment offers considerable scope for advancement to an ambitious man between 35 and 45 years of age, with a good commencement Salary.

Application with full details of past experience and references, which will be treated with strict confidence.

Apply:

**Box No. 5704 "The Builder"**

**MACADAM SURFACING DEPARTMENT.** A first-class opportunity occurs in the Midlands area for an energetic young man with a good knowledge of Bituminous and Asphalte Surfacing contracts. Prospects of eventual control of department and appropriate salary to successful applicant.—Applications to Managing Director, BIRMINGHAM ASPHALTE AND PAVING CO., Ltd., 25 Whitmore-road, Small Heath, Birmingham 10.

**COMPETENT WORKS MANAGER or GENERAL FOREMAN** Required for high-class private house building in West Essex. Ability to drive essential. This is a progressive post with excellent prospects for right man.—Apply Box 5797, "The Builder."

**COMMERCIAL MANAGER** Required for Specialist Flooring company. Qualifications need not include close knowledge of flooring trade, but applicant should have wide experience in Building industry, including costing, tendering and negotiating procedure, invoicing and office administration. This is a small subsidiary company but capacity and finance are available, giving good opportunity to enthusiastic man. The post, which is, pensionable, offers commencing salary of up to £1,250 per annum, according to experience. Prior to interview, particulars of career (treated in fullest confidence) should be sent to Box No. 4131, c/o CHARLES BARKER & SONS, Ltd., Gateway House, London, E.C.4.

Modular concrete

## ASSISTANT WORKS MANAGER

required for

manufacture of high-grade precast concrete products. Engineer training preferred, experience of modern production methods, works costing and accounting.

Permanent and pensionable position.

Write stating age, experience and salary required to:—

Managing Director,
**MODULAR CONCRETE COMPANY**
**1260 London Road,**
**Norbury, S.W.16**

# Regional Managers

Two Regional Managers are required by a National Public Company of Estate Developers for the Tyneside/Teeside and West Lancs. areas.

The men concerned must have had extensive experience, in a managerial capacity, of large-scale Estate Development in all its branches and will be required to control a Regional Office.

The positions offered are permanent and carry salaries commensurate with the importance of the positions envisaged, plus generous discretionary bonus and car together with contributory and top hat pension schemes.

Suitable applicants are invited to reply, in complete confidence, giving details of experience, present employers, etc., to **"Managing Director", Box M151, c/o Jackson's, 54 Old Broad Street, London, E.C.2.**

Interviews can be arranged locally or in London.

WATES build

## WATES LTD.

require

## OFFICE MANAGER/SUB AGENT

For large multi-storey flat contract in Bethnal Green. Must have proven administrative and surveying experience on contract work. Progressive opportunities carry realistic income and permanent position for the right man

Write fully, stating age, qualifications, present salary, and include detailed description of previous contracts and experience in chronological order, to Personnel Manager,

**1260 LONDON ROAD, NORBURY, S.W.16.**

## *Builders based in South Bucks,*

but carrying out Contracts in Home and Southern Counties,

**require**

## ASSISTANT TO CONTRACTS DIRECTOR

The duties will be mainly supervision and management of various contracts and the applicant will be directly responsible to the Director. He will be expected to work in very close co-operation with the Head Office technical and planning staff and ensure that the contracts are carried out on time, to the satisfaction of the clients, and on an economical basis. He will have to be able to locate, negotiate with, and control sub-contractors on our sites and generally deal with all labour and material problems as they arise.

To a suitable applicant we are prepared to pay a substantial salary, provide a car, and in due time, invite him to join the pension scheme. Future prospects depend entirely on the ability of the applicant to fulfil the above general requirements.

**Box No. 5857, "The Builder"**

**AN EXCEPTIONAL OPPORTUNITY** arises with an old established and well known firm of Building Contractors in Nottingham, who are seeking a **BUILDING MANAGER** to take charge of their Contract Department. Applicant must be able to estimate for, control and supervise contracts up to £100,000.—State experience and salary required to Box 5830, "The Builder."

## JOHN LAING CONSTRUCTION LIMITED

*requires*

## MEN

**with a technical knowledge of BUILDING CONSTRUCTION and QUANTITIES, for the Central Buying Department at Mill Hill.**

The work consists of taking off quantities from documents, preparing ordering schedules, and issuing orders and sub-contracts, for Building and Civil Engineering contracts throughout the country.

There are good prospects within the organisation, including a Pension Scheme and other progressive benefits.

Applications are invited from men studying for H.N.C., L.I.O.B., or A.I.Q.S., or those who have already qualified; and from men with relevant experience in the building industry but without qualifications.

Apply in writing giving brief details to the **Group Personnel Manager (S.B.4), John Laing & Son, London, N.W.7.**

## ASSIST. MANAGER/ESTIMATOR

For high-class decorating subsidiary of large company with early prospects of full control. Applicant must be ambitious, enthusiastic and keen to expand business with assistance from director. Excellent opportunity with top salary, Pension Scheme and holiday this year.

*Write to:*

**W. J. Brooker Ltd., 28 Westminster Bridge Road, London, S.E.1.**

Ref.: ADH

## CONTRACTS MANAGER

required

to undertake responsibility for a number of new Building contracts of **£250,000 to £1,000,000** mainly offices and Flats in **London and Home Counties.** Experience of all aspects of the industry preferred. Excellent opportunity for a well-trained man in rapidly expanding Company.

**Box 5910, "The Builder"**

## CLERKS OF WORKS

**CLERK OF WORKS** Required for hospital project in London, S.W.3, area. Immediate start has been authorised.—Please write full particulars, with names of two referees, to LANCASTER & LODGE, 10 Woburn-square, London, W.C.1.

**OPPORTUNITY** for retired CLERK OF WORKS or Senior Foreman to supervise works on part-time basis, preferably with car. North Hampshire.—Apply Box 5743, "The Builder."

**DERBY:** CLERK OF WORKS for Teachers College approx. £300,000.—Write details of experience and salary to CHARLES PIKE & PARTNERS, 14 Lincoln's Inn Fields, London, W.C.2.

*Formerly the Incorporated Clerk of Works Association of Great Britain*

FOUNDED 1882

ARCHITECTS
SURVEYORS
AND ENGINEERS
Requiring
CLERKS OF WORKS
Are invited to apply to
THE SECRETARY

Applications for membership are welcomed from qualified Clerks of Works.

The Secretary:
LIVERPOOL HOUSE,
15-17 ELDON STREET,
LONDON • E.C.2

Phone: LONDON WALL 2932

## SHREWSBURY GENERAL MARKET HALL
## CLERK OF WORKS

CLERK OF WORKS Required for large Building Contract in Shrewsbury. The work comprises the construction of the new General Market Hall in the centre of the Town. Work is due to start during the next few months and the Contract will run for about 2½ years. Salary £1,200/£1,400 p.a. according to experience.—Apply in writing stating qualifications, experience and age, together with the names of two referees to the Architects: DAVID DU R. ABERDEEN & PARTNERS, 19 Southampton-place, London, W.C.1.

**POST** of CLERK OF WORKS for £180,000 school contract in Stalybridge area. Salary up to £1,000 per annum according to experience and qualifications.—Apply, in writing, to the F. X. VELARDE PARTNERSHIP, 9 Windsor Buildings, George-street, Liverpool 3.

**CLERK OF WORKS** Required as Technical Officer (W.D. Grade III) for large contract 30 miles from Belfast, to work under direction of Resident Architect. The contract involves new building work and large-scale alterations and additions to an existing military barracks. The successful applicant will be appointed for a minimum period of 16 months from October 1, 1961.—Applicants, who must be members of the Institute of Clerks of Works of Great Britain (Inc.), should apply in writing to the Architects, Messrs. MUNCE & KENNEDY, 133 University-street, Belfast, 7, giving full personal details, the names of three references and listing their experience of contracts over £250,000.

## ENGINEERS

**ROBERT MARRIOTT LIMITED**

**Require**

# Site Engineer

for setting out and levelling operations on large contracts in Midlands. Must be experienced with all types of surveying and levelling equipment.

Apply in writing stating experience and salary required to: Works Manager, **Robert Marriott Ltd.,** Midland Works, RUSHDEN, Northamptonshire.

## BUYERS

**Two energetic**

# ASSISTANTS

required for Buying and Contracts Dept. age 19–22 with technical background of building industry. Time will be allowed off to complete studies and holiday arrangements for this year may be kept. These posts are open to young men who have ambition to progress to more senior positions in the future.

*Apply to*

**General Manager**
**T. & B. (St. Albans) Ltd.**
**69 Victoria Street,**
**St. Albans, Herts.**

**BUYER** Required for the London office of an established firm of Building and Civil Engineering Contractors. Experience essential.—Please reply, giving full details of previous employments, etc., to Box 5673, "The Builder."

**ASSISTANT BUYER,** salary £6/700 p.a. for right man. Required by Building and Civil Engineering Contractors.—Apply Mr. R. S. Cox, HOWARD FARROW, Ltd., Highfield-road, Golders Green, N.W.11. MEA 3232 (office) or FIN 0769 (home).

**EXPERIENCED ASSISTANT BUYER** Required for S.W. Surrey Builders. Must have a good knowledge of Taking-off Material Schedules and purchasing building materials for all trades.—Reply, stating age, experience and salary required, to Box 5801, "The Builder."

**BUYING.** Young ASSISTANT with some experience of Bills of Quantities and Sub-Contractors Required by Building and Civil Engineering Contractors, London, S.W.1. State experience and salary required.—Box 5809, "The Builder."

**BUYER** Required by Building Contractors. Applicants must be fully experienced.—Write, giving full details of age, experience and salary required, Box 5850, "The Builder."

**BUYER** Required with knowledge of tools and plant records; preference given to man with plumbing and/or heating materials purchasing or merchant experience.—Write, in first instance, to Manager, Buying Department, E.S.I., Ltd., 258 Gray's Inn-road, London, W.C.1.

**BUYER'S ASSISTANT** Required by North London Building Contractors, able to take-off quantities for ordering purposes.—Write, or 'phone, for interview, A. T. ROWLEY (LONDON), Ltd., Cambridge Works, Lordship-lane, Tottenham, N.17. TOTtenham 3611.

# EXPERIENCED BUYER

required for General Building Materials. Must be able to extract material requirement schedules from Bills of Quantities, drawings, etc. and to work closely with production control department in progressing deliveries.

Apply:

**F. J. Minns & Co. Ltd.,**
**9 West Way, Botley, Oxford.**

## REPRESENTATIVES

**PUMP MANUFACTURERS** wish to appoint an AGENT for Midlands and Southern Counties to specialize in sales of electro-submersible drainage pumps. Proven ability to sell and first-class connections throughout the area are essential.—Write Box 5666, "The Builder."

**BUILDING TRADE REPRESENTATIVES**

Vacancies exist in the

*WEST LONDON*
*& SUSSEX AREAS*

for experienced Representatives to sell Polythene Film. Applications are invited from men within the age range 25–40 with initiative and the ability to sell. Excellent prospects for the right men in this expanding Company.

It is essential that the successful applicants have selling experience together with live contacts in all spheres of the building industry.

A driving licence is essential.

Please apply in writing to—

**Personnel Manager,**
**FABLON LIMITED**
**75, Grosvenor Street, London, W.1**

**AUSTINS OF EAST HAM LTD.**

# Assistant Representatives

Many young men who have gained experience in the Building Trade and who possess initiative and drive feel that their ambitions can only be satisfied by making selling their career.

An appointment for Surrey is now offered to such young men, age 23–26, to join the sales organisation of Austins of East Ham, selling Standard Wood Windows, Doors and Kitchen Units.

After initial training at Head Office suitable candidates will be given outside experience.

Apply to Sales Director,
**2, Abbots Road, East Ham, London, E.6.**
giving details of education and career.

# SALES REPRESENTATIVE

required for important London Territory to expand the sale of Building Chemicals and Flooring Aggregates. Applicants must be capable of selling at a high level within the Building Industry. The selected applicant will earn a basic salary and Commission with potential earnings of £2,000 within two to three years.

*Write in strict confidence to:*

**The Sales Manager,**
**Quickset Water Sealers Limited,**
**20 Albert Embankment,**
**London, S.E.1.**

# AGENTS

WANTED CALLING ON ESTATE DEVELOPERS, ACCUSTOMED TO DEALING AT TOP LEVEL.
PHONE
B.I.V.C. RIVerside 3248
OR WRITE
**93, BLACK LION LANE, LONDON, W.6.**

## BUILDERS' ASSISTANTS

**ENERGETIC, AMBITIOUS YOUNG MAN,** age 20–26 years; G.C.E. "O" level; knowledge of joinery or building trades advantage, to train as PERSONAL ASSISTANT to Director.—Apply, in writing, stating experience and salary required, DAVIES BROS., Ltd., 225 Lea Bridge-road, Leyton, E.10.

**TRAINEE BUILDER'S ASSISTANT** Required, aged 18/22. Assist Manager. To train as Estimator/Surveyor with progressive medium-size Builders and Contractors. Education: G.C.E. standard preferred.—Write GEO. JARVIS & CO., Ltd., 58 Church-street, Weybridge, Surrey.

**BUILDERS' ASSISTANT** Required to prepare Estimates from Bills of Quantities and Plans; assist generally with supervision and office work, with old-established firm. Would consider giving suitable applicant interest in the business.—Apply BOYCE, Odiham, Hants.

**ASSISTANT** Required in Architect's office to deal with obtaining tenders, placing sub-contract, orders, etc.—Write giving full particulars to ELLIOTT, COX & PARTNERS, 172 Buckingham Palace-road, S.W.1.

**YOUNG ENERGETIC BUILDER'S ASSISTANT** Required in progressive company for general site and office duties. Knowledge of measuring and general contracting routine essential. First-class prospects for successful applicant.—Apply, in writing, to IVES & COMPANY (CONTRACTORS), Ltd., 78 Kensington High-street, W.8.

# ASSISTANT

age 22-35, required for Premises Department. Must be able to prepare schemes, specifications, carry out surveys and be a good draughtsman. A knowledge of Interior Design desirable. Good commencing salary, with additional bonus. Pension Plan. Please write giving fullest details of age, experience, etc., to

**Personnel Manager,**
**The National Cash Register Co. Ltd.,**
**206-216 Marylebone Road, London, N.W.1.**

Two energetic

## ASSISTANTS

required for Buying and Contracts Dept. age 19-22 with technical background of building industry. Time will be allowed off to complete studies and holiday arrangements for this year may be kept. These posts are open to young men who have ambition to progress to more senior positions in the future.

*Apply to:*

**General Manager**
**T. & B. (St. Albans) Ltd.**
**69 Victoria Street,**
**St. Albans, Herts.**

## AGENTS

**WANTED:** AGENTS for Duromit Industrial Floor Tiles, all districts.—MACNAB PAVING Ltd., Grove-road, Hitchin, Herts.

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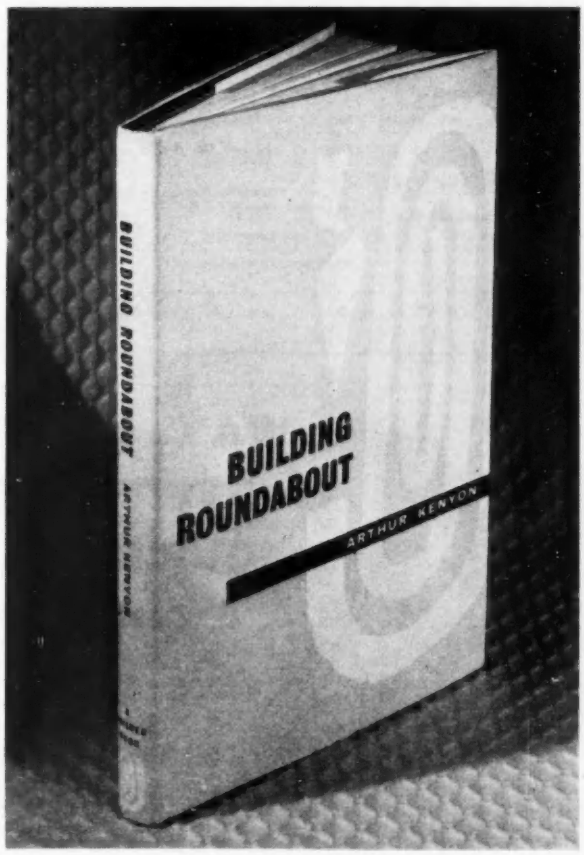


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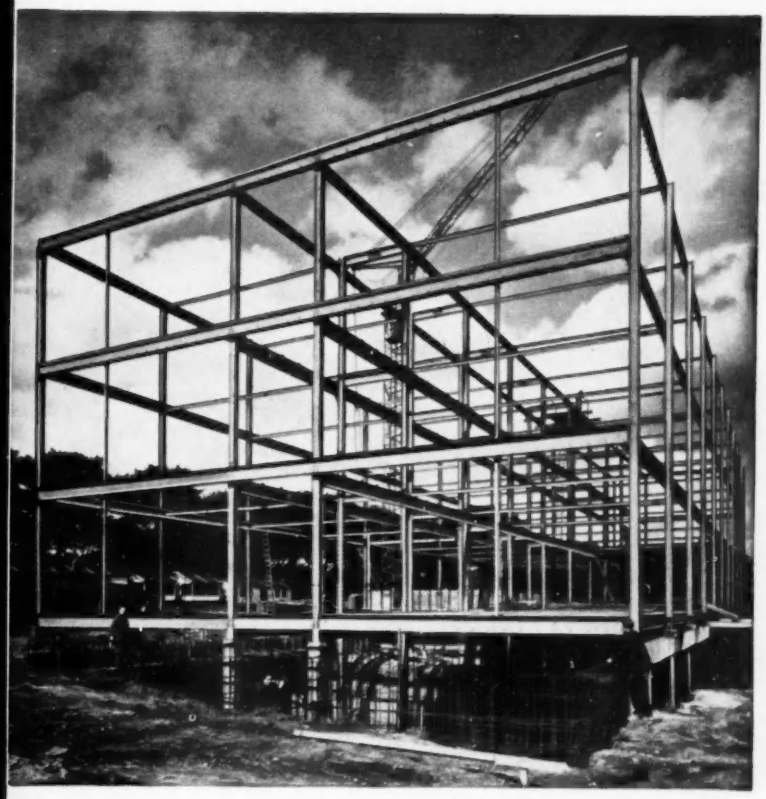

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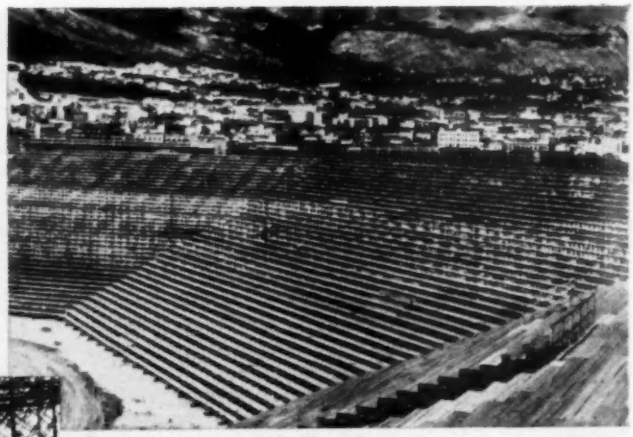

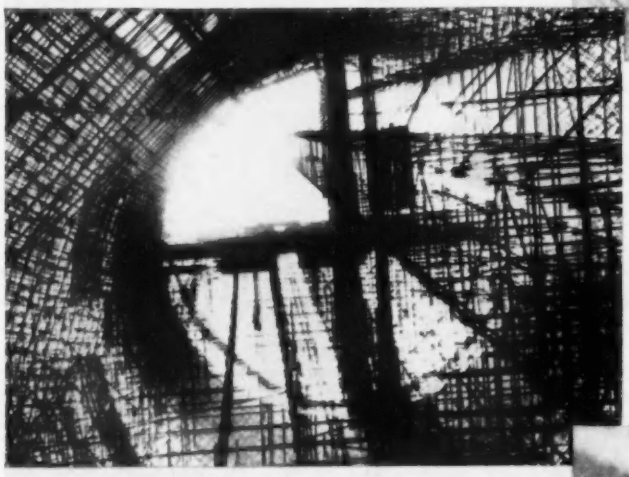

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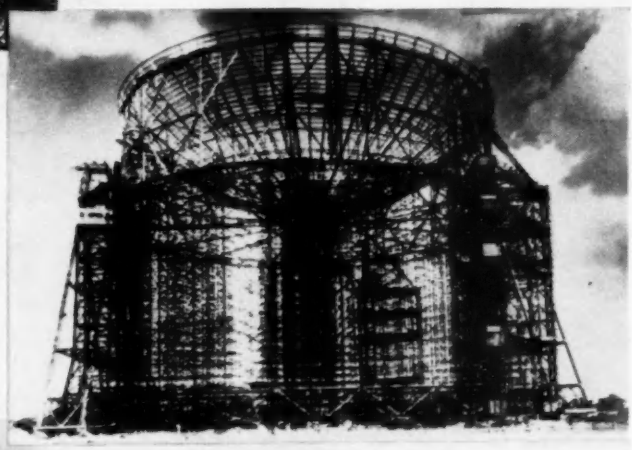

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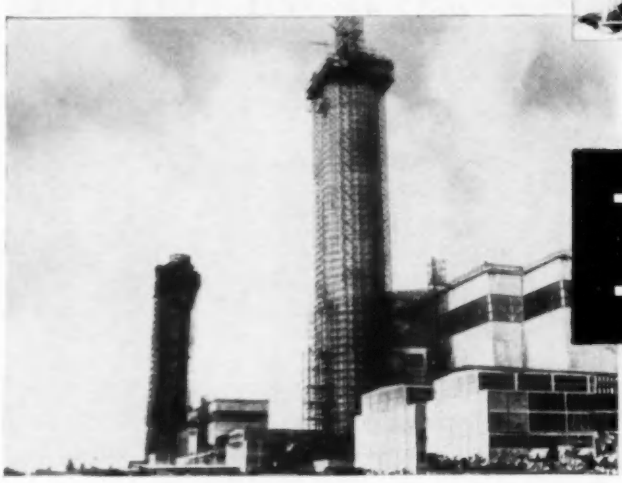

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